

## A Revision of *Storenosoma* Hogg and Description of a New Genus, *Oztira* (Araneae: Amaurobiidae)

G.A. MILLEDGE

Australian Museum, 6 College Street, Sydney NSW 2010, Australia  
graham.milledge@austmus.gov.au

**ABSTRACT.** The genus *Storenosoma* Hogg, 1900 is revised and now contains thirteen species, *S. hoggi* (Roewer), *S. altum* Davies, *S. supernum* Davies, *S. terraneum* Davies, *S. bifidum* n.sp., *S. bondi* n.sp., *S. forsteri* n.sp., *S. grayi* n.sp., *S. grossum* n.sp., *S. picadilly* n.sp., *S. smithae* n.sp., *S. tasmaniensis* n.sp., and *S. victoria* n.sp. A new genus, *Oztira*, is described to contain Australian species previously ascribed to the New Zealand genus *Otira* Forster & Wilton. *Oztira* contains four species, *Oz. affinis* (Hickman) n.comb., *Oz. aquilonaria* (Davies) n.comb., *Oz. summa* (Davies) n.comb., and *Oz. kroombit* n.sp. The relationships between *Storenosoma*, *Oztira*, *Otira* and *Pakeha* are discussed.

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The genera *Storenosoma* Hogg and *Oztira* n.gen. (Fig. 1a–c) contain ground dwelling cribellate amaurobiid spiders of small to moderate size which appear to be free living terrestrial hunters. They are characterized by the strongly procurved eye rows, with the PLE and sometimes the PME being considerably larger than those of the anterior row. The eye pattern and body colouration give them a superficial resemblance to wolf spiders, as noted by Hogg (1900). At present, they are only known from eastern and south eastern Australia.

The genus *Storenosoma* was placed in the Zodariidae by Hogg (1900) and synonymized with *Storena* Walckenaer 1805 by Roewer (1942). It was subsequently removed from synonymy with *Storena*, although not explicitly stated, and transferred to the Amaurobiidae by Davies (1985). Hogg (1900) described a single species in *Storenosoma*, *S. lycosoides* Hogg, 1900, from Macedon in Victoria. When Roewer (1942) synonymized *Storenosoma* with *Storena* he provided a replacement name, *S. hoggi* Roewer, 1942, for *S. lycosoides* which was believed to be preoccupied in *Storena*. A further three species were described by Davies (1986)

from north eastern New South Wales and South Eastern Queensland. Examination of large numbers of specimens in museum collections has revealed a further nine species which are described here. Two genera that appear closely related to *Storenosoma*, *Pakeha* Forster & Wilton, 1973 and *Otira* Forster & Wilton, 1973 (Fig. 1d–e), were described from New Zealand. These three genera are all linked by the possession of retrolateral stridulatory spurs on the male palpal trochanter (Fig. 3c). The relationship between these three genera was recognized by Davies (1986). Hickman (1981) described a new amaurobiid species from south western Tasmania, which he ascribed to *Otira*, *Ot. affinis* Hickman. Davies (1986) added two further species, *Ot. summa* Davies and *Ot. aquilonaria* Davies, from north eastern Queensland. Examination of a number of specimens of Australian *Otira* has revealed one new species from south eastern Queensland. In addition, it has been concluded that the Australian species differ enough from their New Zealand counterparts to warrant the erection of a new genus, *Oztira*.

These genera are currently placed in the Amaurobiidae. However, the cladograms of Davies (1998, 2000) place

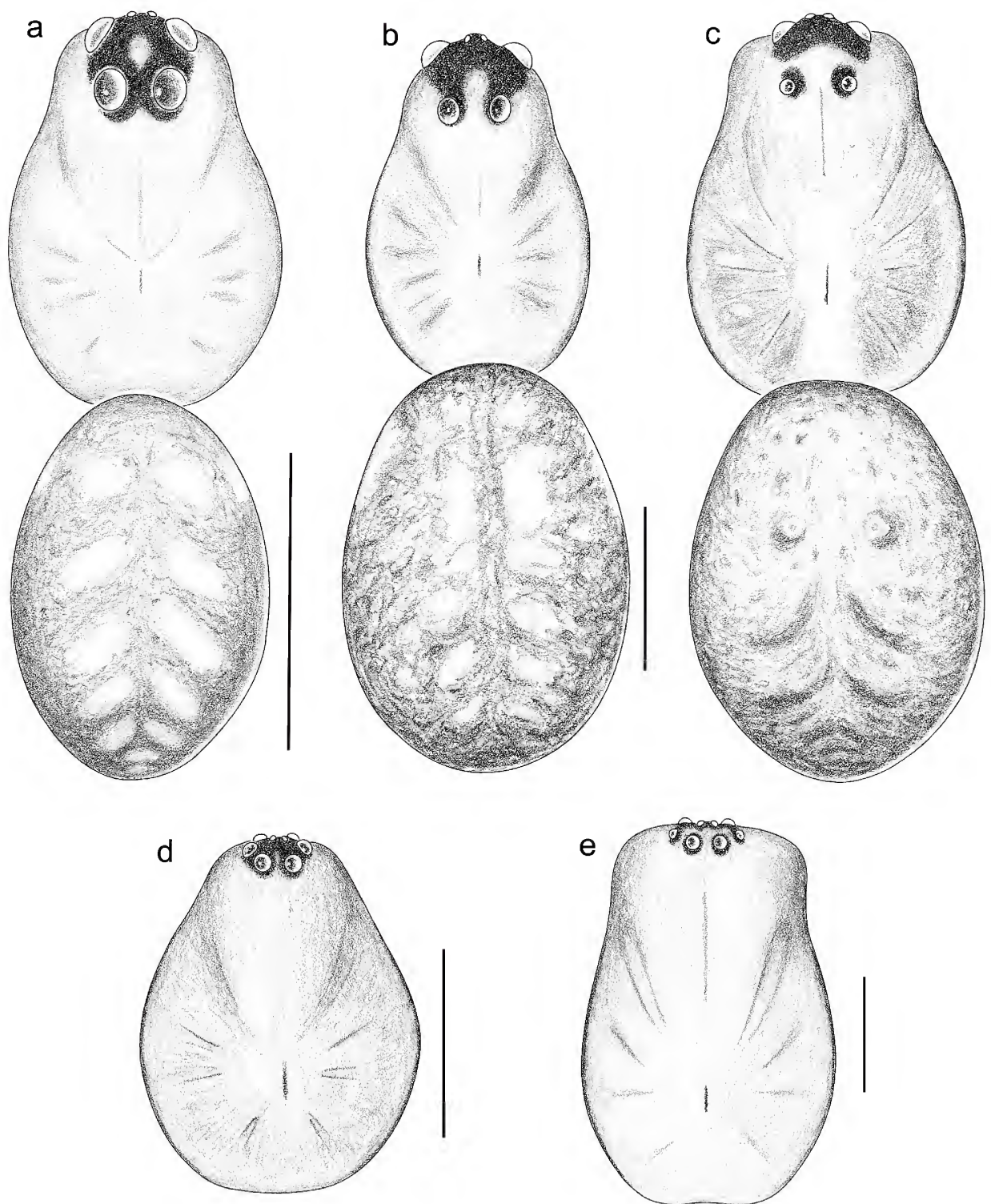


Fig. 1. Cephalothorax and eye pattern. (a) *Oztira affinis*, (b) *Oztira kroombit*, (c) *Storenosoma hoggi*, (d) *Otira satura*, (e) *Pakeha protecta*.

*Storenosoma* and *Storenosoma* + *Otira* as sister groups to *Tasmarubrius* Davies, 1998 which Davies places in the Amphinectidae. Later though, Davies (2002) states that “there is no clear diagnosis of the family Amphinectidae”. In light of this, and the fact that it is beyond the scope of this study to attempt a further higher level analysis of the Amaurobioidea (sensu Forster, 1970), *Storenosoma* and *Oztira* are left in the Amaurobiidae.

### Materials and methods

Specimen examinations, measurements and drawings were made using a Leica MZ8 or Olympus SZX16 microscope with graticule and drawing attachment. Specimen preparations for scanning electron microscopy utilized an air dried specimen which was directly mounted to a stub. All specimens were coated with gold and viewed

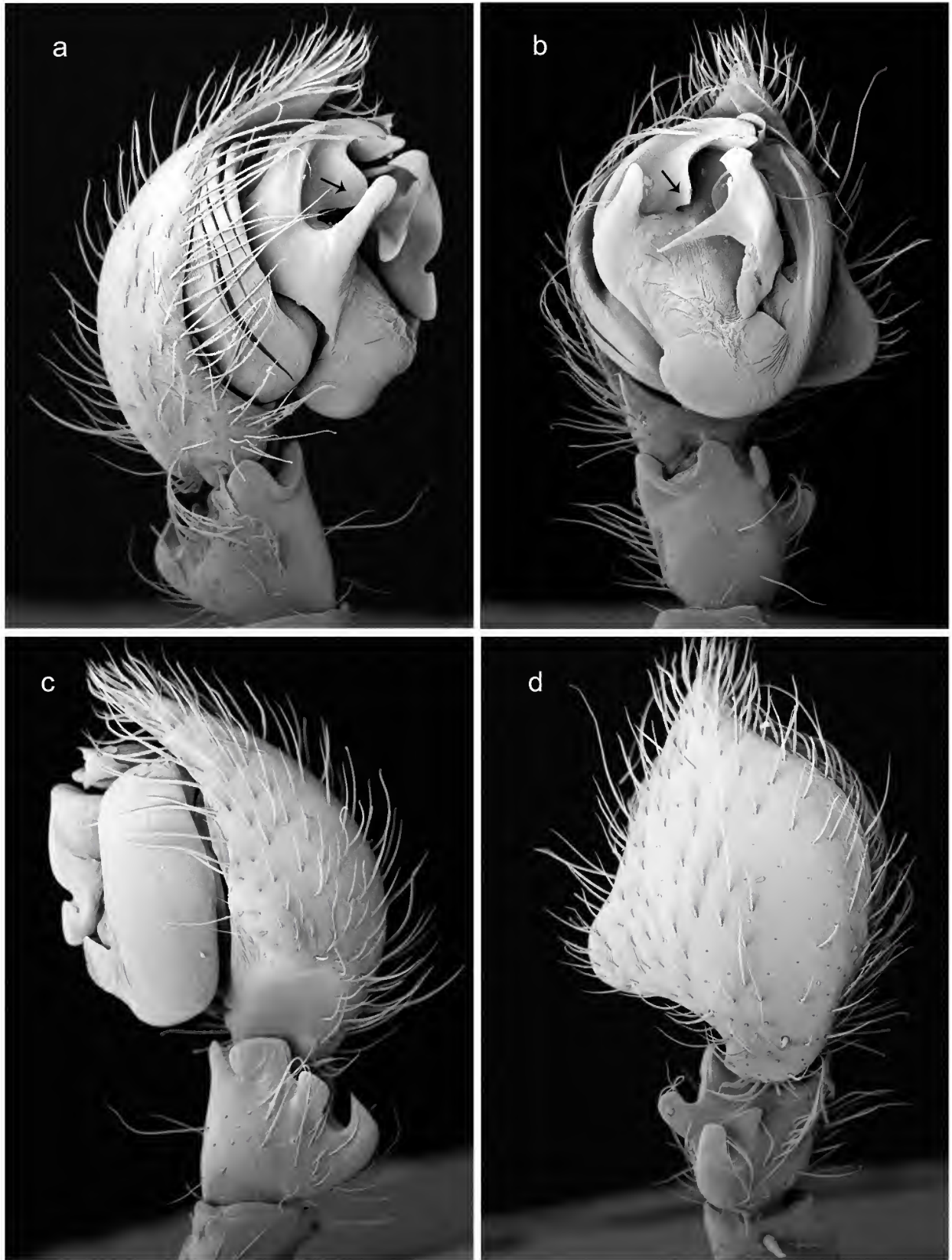


Fig. 2. *Storenosoma hoggi* (KS71594), male palp (arrows indicate basal expansion of embolus). (a) prolateral, (b) ventral, (c) retrolateral, (d) dorsal.

using a Zeiss Evo LS15 SEM incorporating a Robinson backscatter detector. Internal details of female genitalia were drawn from an excised epigynum cleared in lactic acid or 10% potassium hydroxide solution. Cleared epigyna were

returned to 70% ethanol for storage after drawing; SEM preparations are kept separately in a dehumidified cabinet. Plates were composed using Adobe Photoshop (7.0 and Elements 2.0). Measurements are in millimetres and, except

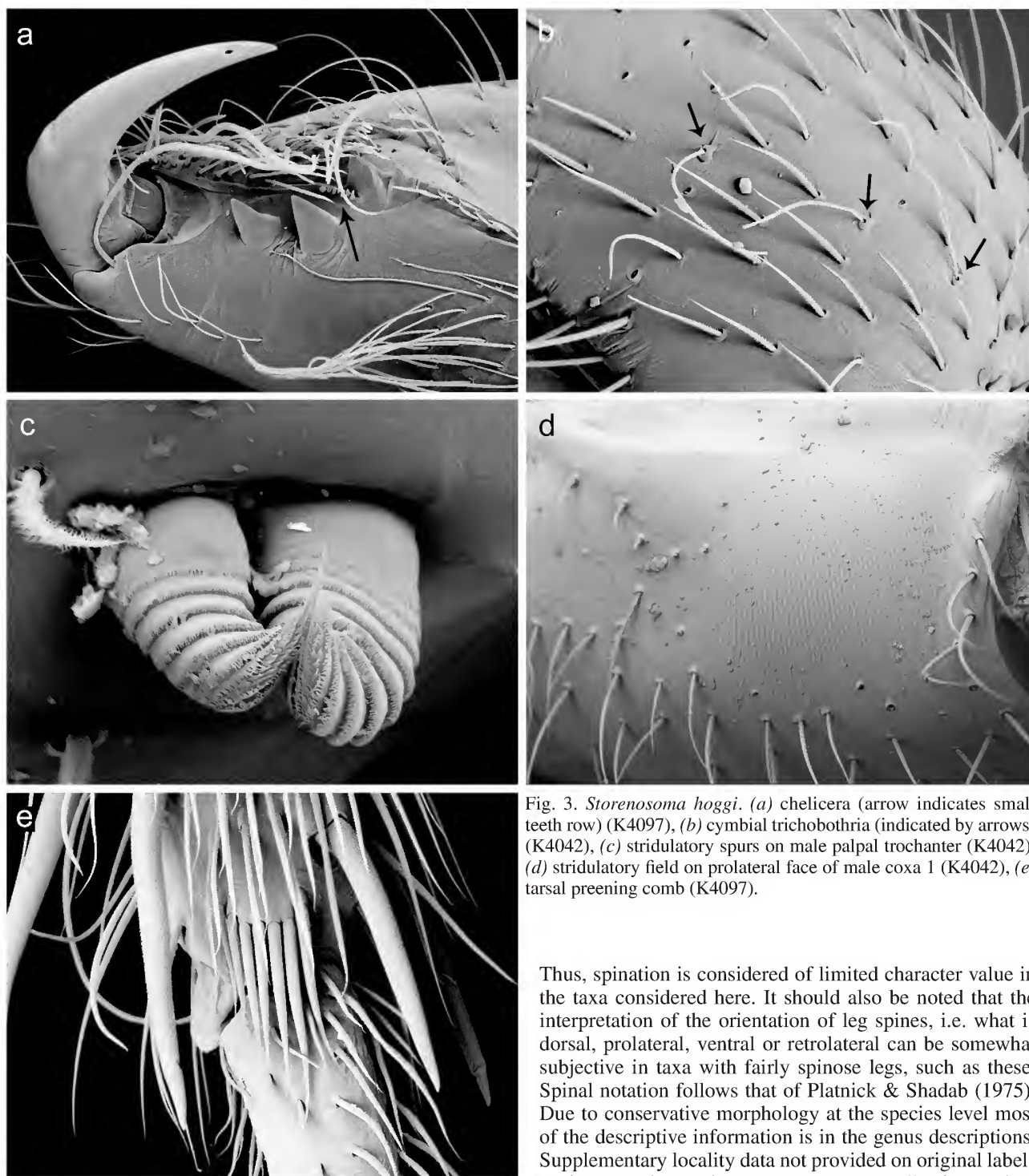


Fig. 3. *Storenosoma hoggi*. (a) chelicera (arrow indicates small teeth row) (K4097), (b) cymbial trichobothria (indicated by arrows) (K4042), (c) stridulatory spurs on male palpal trochanter (K4042), (d) stridulatory field on prolateral face of male coxa 1 (K4042), (e) tarsal preening comb (K4097).

Thus, spination is considered of limited character value in the taxa considered here. It should also be noted that the interpretation of the orientation of leg spines, i.e. what is dorsal, prolateral, ventral or retrolateral can be somewhat subjective in taxa with fairly spinose legs, such as these. Spinal notation follows that of Platnick & Shadab (1975). Due to conservative morphology at the species level most of the descriptive information is in the genus descriptions. Supplementary locality data not provided on original labels are in squared parentheses. To save space, collection method data has been omitted, however the majority of specimens examined were collected in pitfall traps.

### Abbreviations

**Morphology.** *ALE*, anterior lateral eye; *ALS*, anterior lateral spinneret; *BL*, body length; *CL*, carapace length; *Co*, conductor; *CW*, carapace width; *CY*, cylindrical gland spigot; *E*, embolus; *LT*, lateral tooth of epigynum; *MA*, median apophysis; *mAP*, minor ampullate gland spigot; *MAP*, major ampullate gland spigot; *PLE*, posterior lateral eye; *PLS*, posterior lateral spinneret; *PME*, posterior median

where stated, are of the holotype and a paratype of opposite sex. The left male palp is illustrated except where indicated. The RTA has not been subdivided into dorsal, retrolateral, ventral and prolateral categories as suggested by Griswold *et al.* (2005) because it is not always clear in the taxa considered here that these elements are separate. Leg spine counts are given for a male of the type species of each genus only. This is due to the rather conservative spination pattern in these genera and the fact that spine numbers can vary slightly within and between individuals, as noted by Hickman (1981).

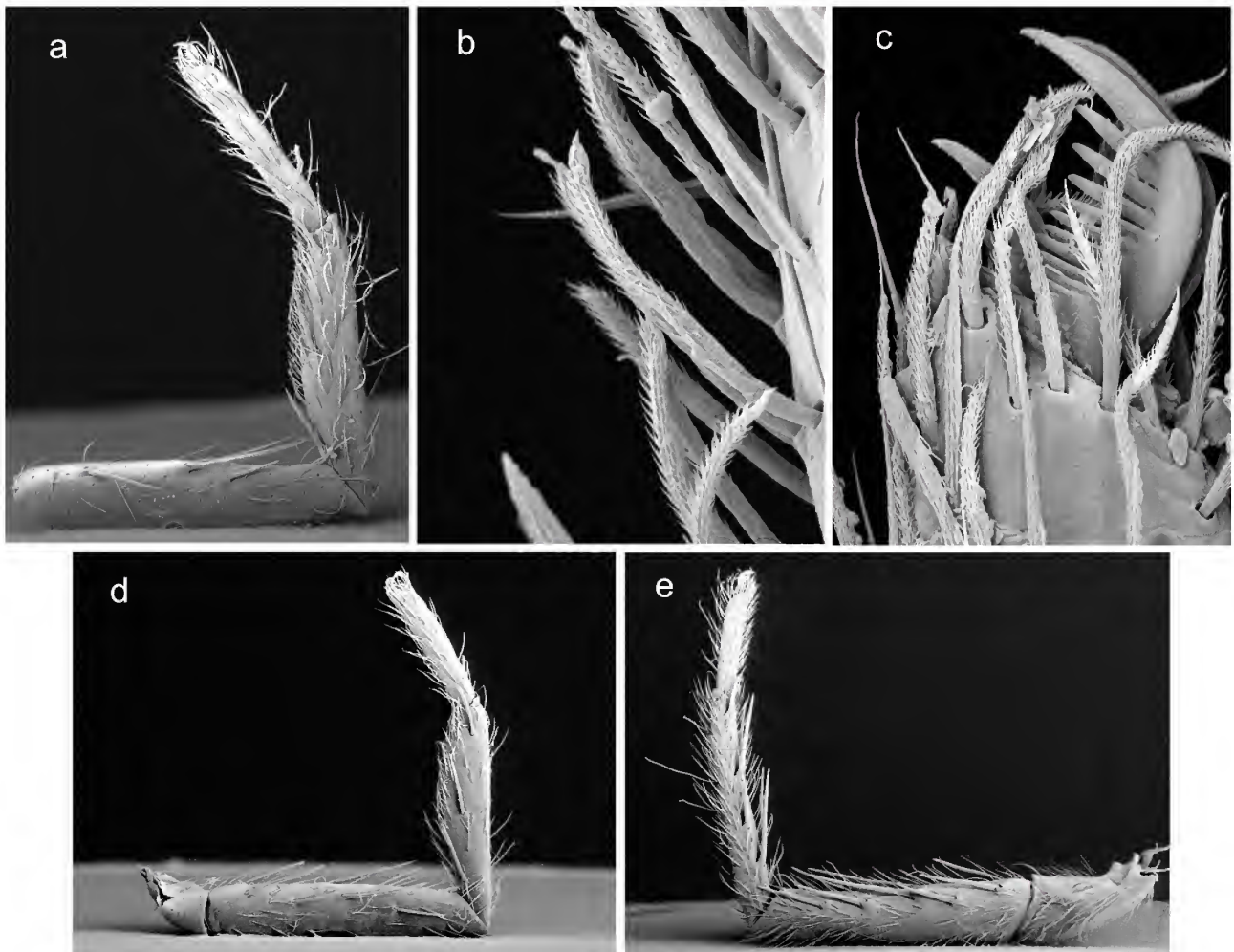


Fig. 4. Forelegs. (a–c) *Oztira aquilonaria* male (S1371): (a) left foreleg tibia and tarsal segments, (b) ventral scopula on metatarsus, (c) tarsal claws. (d) *Oztira affinis* male (KS101138), left foreleg tibia and tarsal segments. (e) *Storenosoma altum* female (KS37226), right foreleg tibia and tarsal segments.

eye; *PMS*, posterior median spinneret; *PP*, proximal process of MA; *RTA*, retrolateral tibial apophysis; *SGO*, sclerotized gonopore opening; *SP*, spermatheca; *TA*, tegular apophysis.

**Repository institutions.** *AMS*, Australian Museum, Sydney; *ANIC*, Australian National Insect Collection, Canberra; *BMNH*, Natural History Museum, London; *CAS*, California Academy of Sciences, San Francisco; *MNZ*, Museum of New Zealand, Wellington; *NMV*, Museum Victoria, Melbourne; *OM*, Otago Museum, Dunedin; *QM*, Queensland Museum, Brisbane; *SAM*, South Australian Museum, Adelaide; *WAM*, Western Australian Museum, Perth.

**Collectors.** *CH*, C. Horseman; *GAM*, G.A. Milledge; *GBM*, G.B. Monteith; *GC*, G. Cassis; *MRG*, M.R. Gray; *RC*, R. Coy; *RR*, R. Raven; *SRM*, S.R. Monteith.

### Genus *Oztira* n.gen.

**Type species.** *Oztira affinis* (Hickman, 1981).

**Diagnosis.** *Oztira* can be distinguished from other amaurobiids except *Otira*, *Pakeha* and *Storenosoma* by the possession of single or paired stridulatory spines on

the trochanter of the male palp (Fig. 3c) and associated stridulatory field on prolateral face of the coxa of leg 1 (Fig. 3d); from *Otira* and *Pakeha* by both eye rows strongly procurved, PLE and to a lesser extent PME enlarged (Fig. 1a–c) and tarsal organ peg-like and situated proximal to trichobothria (Fig. 6); from *Storenosoma* by metatarsus on leg 1 of male swollen distally and with ventral scopula (Fig. 4a–b, d).

**Description.** Small (CL 1.3–2.3 mm), ecribellate, ground dwelling spiders. Cephalothorax, legs and chelicerae golden to orange brown. Cephalothorax often with darker dorsal markings in radial pattern around fovea, region around eyes very dark. Both eye rows strongly procurved, posterior eyes, particularly PLE, enlarged. Chilum absent. Legs with faint to distinct banding and blotches. Chelicera vertical with prominent retrobasal boss, two retromarginal and two promarginal teeth, promargin also with row of minute teeth distal of and slightly posterior to large teeth. Paturon with numerous sensory hairs toward promargin of fang groove and a particularly elongate hair at fang base; single elongate hair at fang base on retromargin. Maxillae slightly longer than wide, lateral margins convex, with strong linear serrula. Labium about as wide as long, with notched apex. Single or

paired stridulatory spines on the trochanter of the male palp and associated stridulatory field on prolateral face of coxa of leg 1. Cymbium of male palp (Fig. 9) with trichobothria and sometimes with retrolateral bulge and associated basal depression. Complex RTA. Moderately stout embolus, membranous conductor and complex MA, TA well developed. Legs 4123. Trochanters of legs 3–4 shallowly notched. Tibia and metatarsi of legs strongly spinose, tarsal organ rod like and situated proximal to trichobothria, trichobothrial hoods longitudinally striated, metatarsus of leg 1 and sometimes leg 2 of male swollen distally and with ventral scopula, preening combs on metatarsi 2–4. Abdomen pale to grey ventrally, dorsally grey brown with pale blotches forming a rough chevron pattern. Epigynum with or without lateral teeth.

**Etymology.** The generic name is a combination of the colloquial Oz meaning Australia with a contraction of *Otira* and is feminine in gender.

**Remarks.** The species described by Hickman (1981) and Davies (1986) were included in *Otira* largely based on the possession of a rod like tarsal organ. However, it appears that this character can be present or absent within members of a single genus e.g., *Storenosoma* (as described herein), *Amauropelma* Raven & Stumkat, 2001 (Raven *et al.*, 2001). Also, the tarsal rod in the Australian species included in this group is proximal to the trichobothria rather than distal as in the New Zealand species. In addition, the form of the eye pattern in *Oztira* more closely resembles that of *Storenosoma* than *Otira* or *Pakeha* (Figs 1a–e). This suggests that *Storenosoma* and *Oztira* are sister groups. The epigyna of many females collected are plugged with a hard, dark resinous substance, making specific identification difficult.

**Included species.** *Oztira affinis* (Hickman), *Oz. aquilonaria* (Davies), *Oz. kroombiti* n.sp., and *Oz. summa* (Davies).

### Key to species of *Oztira*

- 1 PME of similar diameter to PLE (Fig. 1a), tarsal rod short (Fig. 6a, 6e–f), Tasmania ..... *Oztira affinis*
- PME about half the diameter of PLE (Fig. 1b) tarsal rod elongate (Fig. 6b–d,g–h), Queensland ..... 2
- 2 Male with cymbial apophyses (Fig. 11c), female epigynum with lateral teeth, sclerotized gonopore openings separate (Fig. 11d)..... *Oztira kroombiti*
- Male without cymbial apophyses, female epigynum with or without lateral teeth, sclerotized gonopore openings fused (Figs 10c, 12c) ..... 3
- 3 Male RTA with one prominent spine (Fig. 10b), female epigynum with blunt lateral teeth, posterior margin of fused sclerotized gonopore openings entire (Fig. 10c) ..... *Oztira aquilonaria*
- Male RTA with all apophyses short (Fig. 12b), female epigynum without lateral teeth, posterior margin of fused sclerotized gonopore openings incised (Fig. 12c) ..... *Oztira summa*

### *Oztira affinis* (Hickman) new combination

Figs 1a, 4d, 6a,e–f, 9a–d, 26

*Otira affinis* Hickman, 1981: 62–5, figs 23–28.

**Type material examined.** HOLOTYPE ♂, Strathgordon, [42°46'S 146°04'E], Tasmania, 16 May 1978, J.L. Hickman, from moss, (AMS KS6995). PARATYPES: 1♀, Same data as holotype (KS6996). 2♀, same data (KS28216).

**Other material examined.** TASMANIA: 1♂, Maggs Mt, 41°45'S 146°12'E, 13 Jun–19 Sep 1979, R.H. Green (KS101138). 1♀, Pieman Rd., 18 km from Murchison Hwy, 41°37'S 145°27'E, 31 Jan 1981, J.L. Hickman (KS86771). 1♀, South West Tasmania, Gordon River region, HEC transect 11A L490, 42°35'S 145°43'E, 29 Jan 1976, C. Howard *et al.* (KS72948). 1♀, South West Tasmania, HEC transect 1L 150, 42°41'S 145°48'E, 13 Feb 1976, C. Howard *et al.* (KS25701). 1♀, South West Tasmania, HEC transect 7R 2058, 42°51'S 145°51'E, 18 Feb 1976, C. Howard *et al.* (KS26534). 1♀, South West Tasmania, HEC transect 3R 1300, 42°31'S 145°45'E, 19 Jan 1978, C. Howard *et al.* (KS27173). 1♀, South West Tasmania, HEC transect 2L 6750, 42°43'S 145°44'E, 21 Jan 1977, C. Howard *et al.* (KS25684). 1♀, South West Tasmania, HEC transect 1R 1070, 42°41'S 145°49'E, 11 Feb 1976, C. Howard *et al.* (KS26586). 1♀, South West Tasmania, HEC transect 12L 820, 42°55'S 145°53'E, 22 Feb 1977, C. Howard *et al.* (KS26485). 1♀,

South West Tasmania, HEC transect 8L 760, 42°37'S 145°45'E, 5 Feb 1976, C. Howard *et al.* (KS26582). 1♀, South West Tasmania, HEC transect 12R 1580, 42°56'S 145°51'E, 19 Feb 1977, C. Howard *et al.* (KS26520). 1♀, South West Tasmania, HEC transect 10L 330, 42°35'S 145°42'E, 31 Jan 1976, C. Howard *et al.* (KS26223). 1♀, South West Tasmania, HEC transect 3R 1225, 42°31'S 145°45'E, 19 Jan 1978, C. Howard *et al.* (KS27124). 1♀, Strathgordon, [42°46'S 146°03'E], 25 Apr 1978, J.L. Hickman (KS28215). 4♀, same data (KS86770). 6♀, same data (KS31781). 2♂, same data except 16 May 1978 (KS28214). 3♀, Track to Heemskirk Falls, 41°50'S 145°11'E, 30 Jan 1981, J.L. Hickman (KS86772). 6♀, Near Tyndalls, [41°56'S 145°34'E], 29 Mar 1975, JAF (KS69912) (all AMS). 1♂, 2♀, Strathgordon, [42°46'S 146°03'E], 25 Apr 1978, J.L. Hickman (S 30779) (QM).

**Diagnosis.** Both sexes can be separated from other *Oztira* spp. by the short tarsal rod which has a distinct flap like opening (Figs 6a,e–f). Males can also be separated from other *Oztira* spp. by the palpal trochanter having twin stridulatory spines and by the form of the MA and RTA (Fig. 9a–b); females by the epigynum being without lateral teeth and the sclerotized gonopore openings being close together but separate (Fig. 9c–d).

**Description.** Hickman (1981) gives a full description for this species. A spinal notation from a representative specimen is given here for comparison with *Storenosoma*.

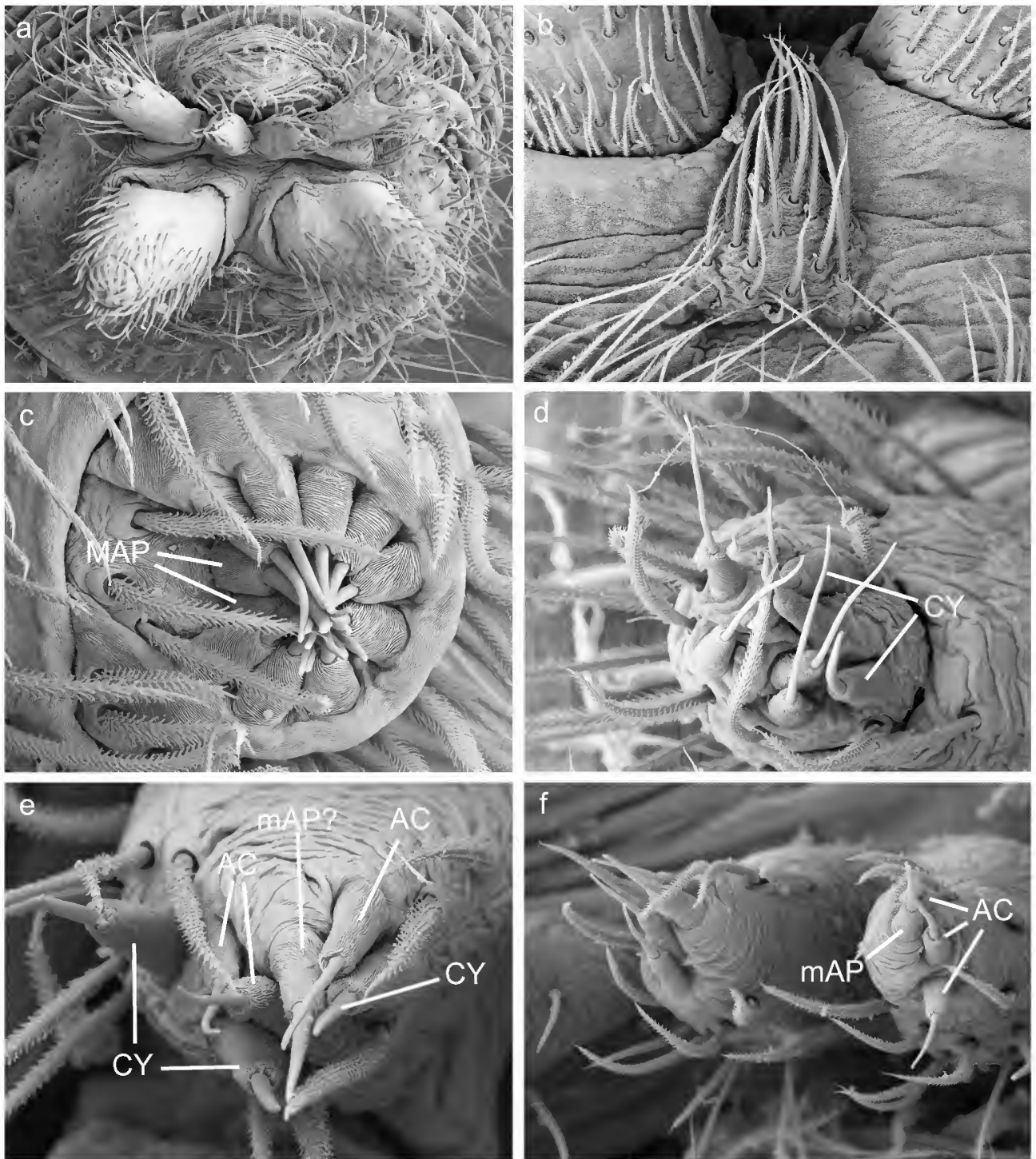


Fig. 5. Spinnerets. (a–e) *Storenosoma hoggi* female (ANIC, NSW, 8.8 km ESE of Captains Flat): (a) spinneret field, (b) cololus, ventral, (c) ALS (RHS), (d) PLS (RHS), (e) PMS (RHS). (f) *Storenosoma hoggi* male (AMS KS105550) left and right PMS.

Leg spination (only surfaces bearing spines listed, left legs of AMS KS28214): femur: I D 1-1-1; II D 0-2-1; III D 1-1-2; IV D 1-0-3; tibia: I P 2-1-1, R 1-2-0; II P 1-1-1, R 1-1-0; III D 1-0-1, P 2-2-1, R 0-1-2; IV D 1-0-1, P 2-2-1, R 0-1-2; metatarsus: I P 2-2-2, R 2-1-1; II P 1-2-2, R 1-1-1; III D 0-2-0, P 1-2-2, V 2-0-0, R 1-2-2; IV D 0-1-0, P 1-1-2, V 2-2-1, R 1-1-2.

**Distribution.** Only known from south west Tasmania (Fig. 26).

***Oztira aquilonaria* (Davies)  
new combination**

Figs 4a–c, 6b, 10a–d, 26

*Otira aquilonaria* Davies, 1986: 238–40, figs 9–12, 31.

**Type material examined.** HOLOTYPE ♀, Cable Tower 3, Bellenden Ker Range, [17°12'S 145°51'E], Queensland, 17–24 Oct 1981, Earthwatch/

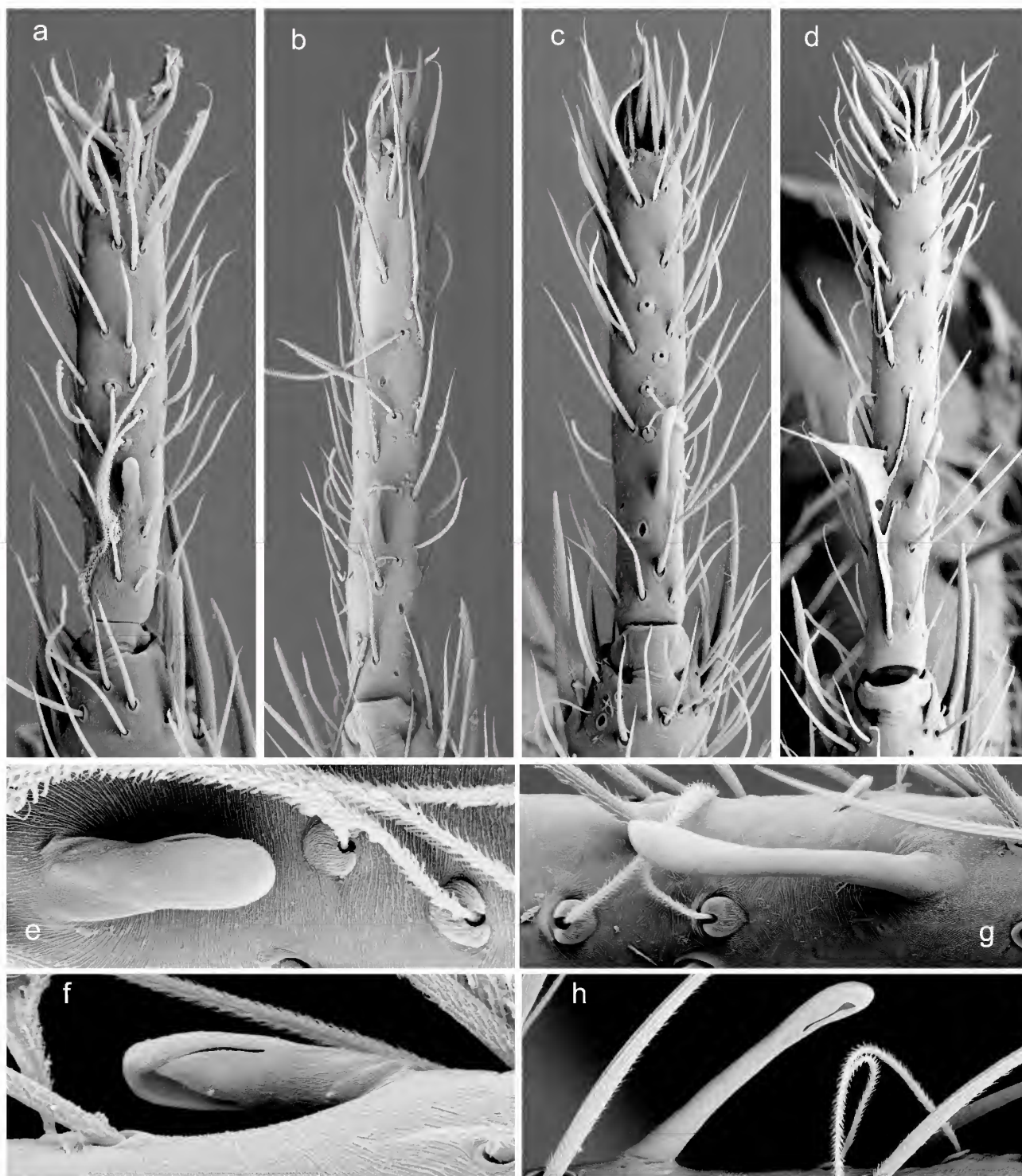


Fig. 6. Tarsal organ and trichobothria. (a, e–f) *Oztira affinis* (KS72948): (a) tarsus leg I; (e) tarsal organ and trichobothrial base, (f) tarsal organ ventral. (b) *Oztira aquilonaria* (S1371): tarsus leg I. (c, g–h) *Oztira kroombit* (S30752): (c) tarsus leg I, (g) tarsal organ and trichobothrial base, (h) tarsal organ ventral. (d) *Oztira summa* (S30776) tarsus leg I.

Queensland Museum Expedition, litter, 1054 m, (S 1368) (QM). PARATYPES: 2♀, same data as holotype (S 1369). 1♂, 1♀, same data except, 25–31 Oct 1981, pitfall traps (S 1371) (all QM).

**Diagnosis.** Can be separated from *Oz. affinis* by the tarsal rod being elongate with keyhole shaped opening (Fig. 6b), by the male palpal trochanter having a single stridulatory spine and by the female epigynum having blunt lateral

teeth (Fig. 10c); from *Oz. kroombit* by the male cymbium lacking apophyses and the gonopore openings on the female epigynum being fused (Fig. 10c–d); from *Oz. summa* by the form of the MA and the RTA, which has a prominent pointed dorsal apophysis, of the male palp (Fig. 10a–b) and by the posterior margin of the fused sclerotized gonopore openings of the female epigynum being entire (Figs 10c–d).

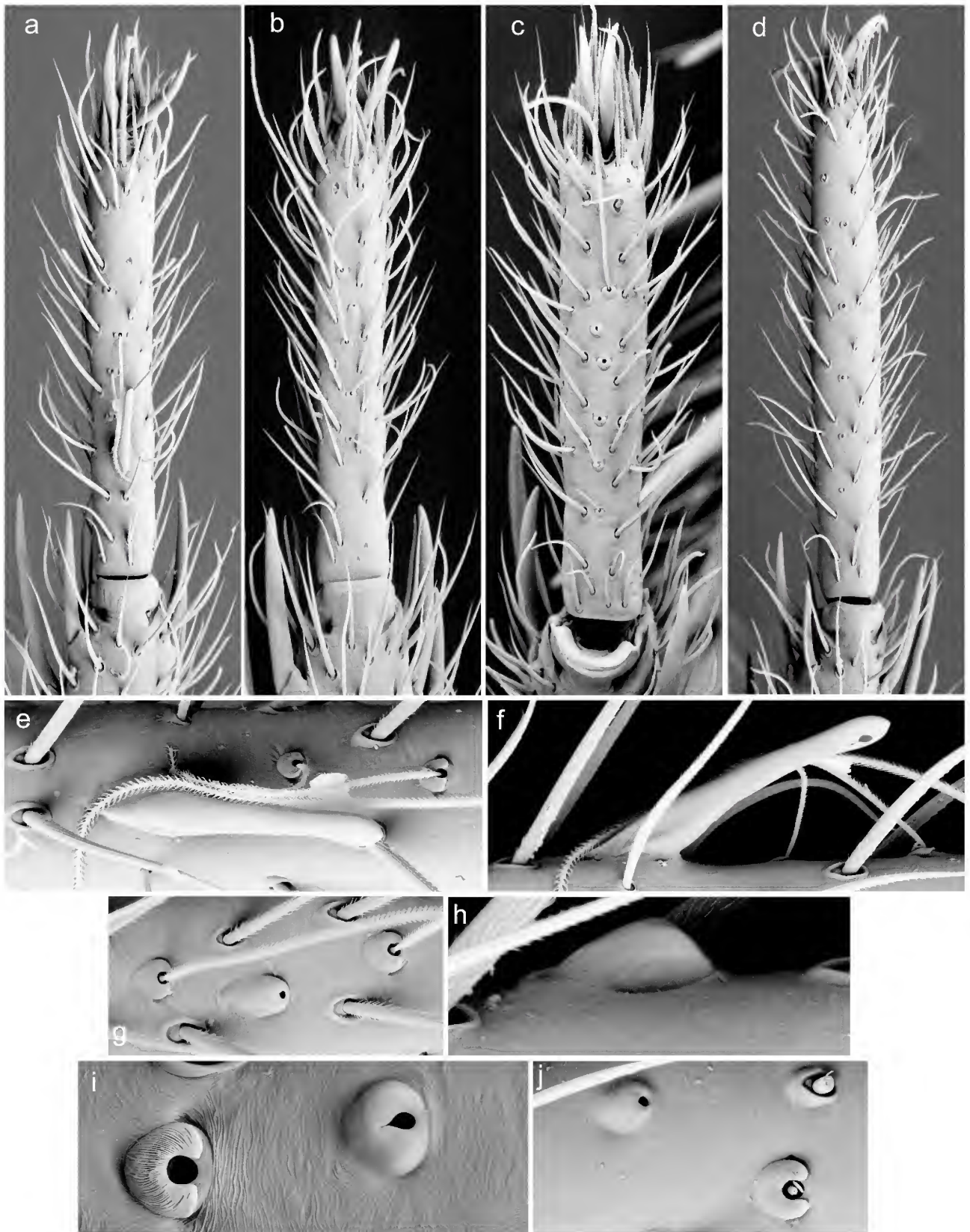


Fig. 7. Tarsal organ and trichobothria. (*a, e–f*) *Storenosoma grayi* (KS69899): (*a*) tarsus leg I, (*e*) tarsal organ and trichobothrial base, (*f*) tarsal organ ventral. (*b, g–h*) *Storenosoma altum* (KS37226): (*b*) tarsus leg I, (*g*) tarsal organ and trichobothrial base, (*h*) tarsal organ lateral. (*c, i*) *Storenosoma hoggi* (K4097): (*c*) tarsus leg I, (*i*) tarsal organ and trichobothrial base. (*d, j*) *Storenosoma bondi* (KS18071): (*d*) tarsus leg I, (*j*) tarsal organ and trichobothrial base.

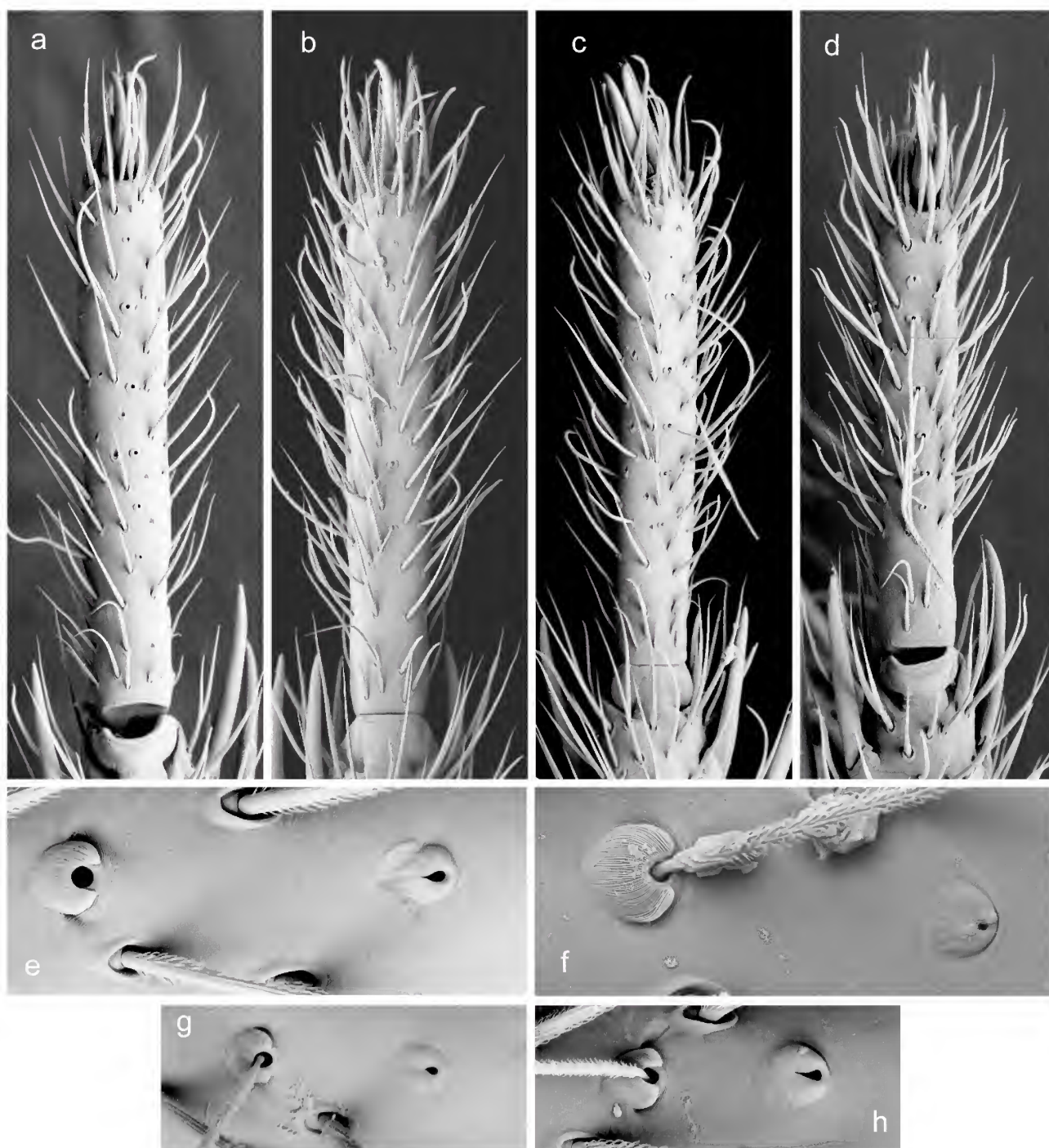


Fig. 8. Tarsal organ and trichobothria. (a, e) *Storenosoma forsteri* (KS52409): (a) tarsus leg I, (e) tarsal organ and trichobothrial base. (b, f) *Storenosoma smithae* (ANIC, NSW, Mt Clarke, Mar 2004): (b) tarsus leg I, (f) tarsal organ and trichobothrial base. (c, g) *Storenosoma tasmaniensis* (TMG147): (c) tarsus leg I, (g) tarsal organ and trichobothrial base. (d, h) *Storenosoma victoria* (K4277): (d) tarsus leg I, (h) tarsal organ and trichobothrial base.

**Description.** *Male.* Measurements: BL 3.06, CL 1.70, CW 1.16, PLE 0.21, PME 0.13 (QM, S 1371). *Female.* Measurements: BL 3.84, CL 1.76, CW 1.08, PLE 0.21, PME 0.15 (QM, S 1368). For morphological description see species diagnosis and generic description.

**Distribution.** Known only from a single locality on Mt Bellenden Ker, north East Queensland (Fig. 26).

**Remarks.** The right palp of the only known male is illustrated here although the tip of the embolus appears to be broken off. The left palp of this specimen is illustrated in an SEM image by Davies (1986, fig. 31). The view of the RTA illustrated by Davies (1986, fig. 11) is dorsal rather than retrolateral as stated. This species has a very restricted distribution and appears to be sympatric with *Oz. summa*. These two species are quite similar morphologically and probably closely related.

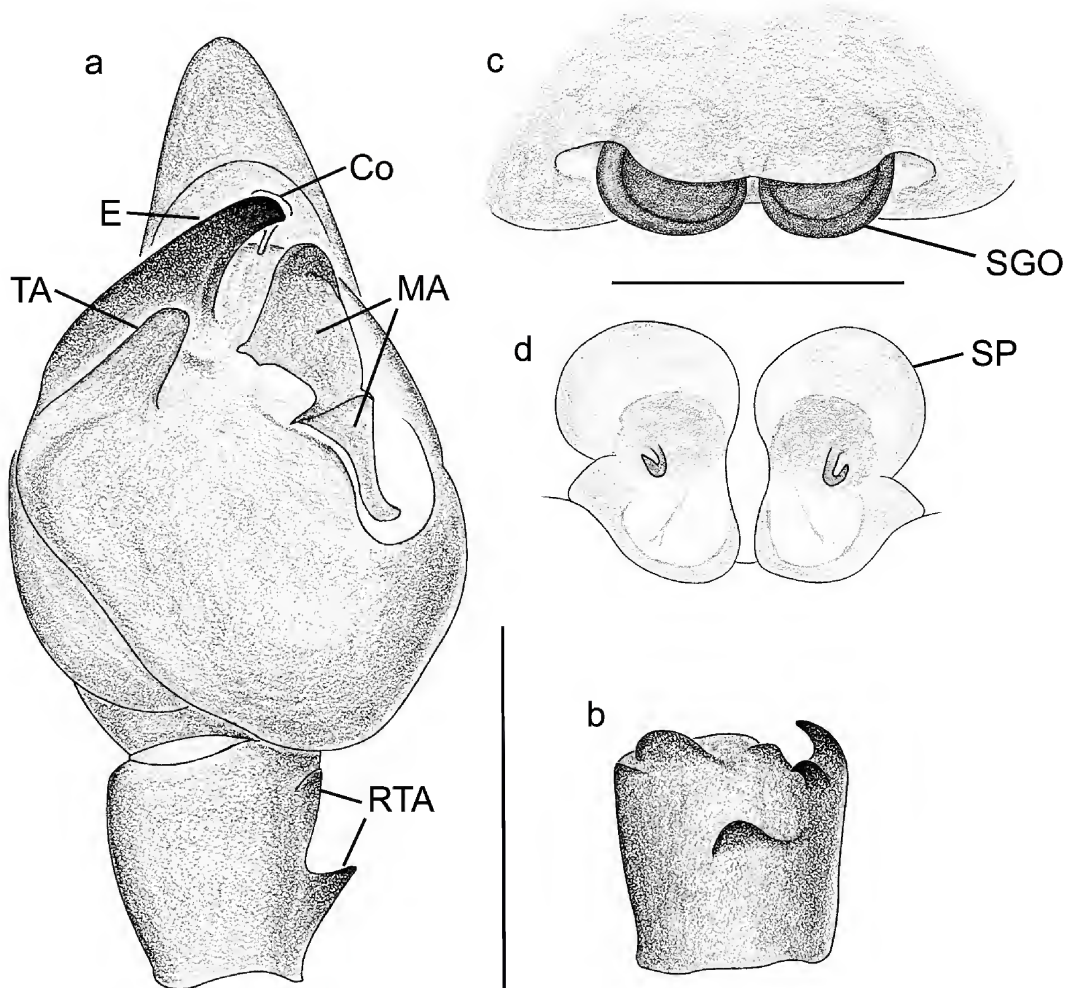


Fig. 9. *Oztira affinis*. (a–b) male palp (KS6995): (a) ventral, (b) RTA, retrolateral. (c–d) female genitalia: (c) epigynum, ventral (S30779); (d) internal (KS28216). Scale lines 0.25 mm.

### *Oztira kroombit* n.sp.

Figs 1b, 6c, g–h, 11a–e, 26

**Type material.** HOLOTYPE ♂, Kroombit Tops (Beauty Spot 98), 45 km SSW of Calliope, [24°22'S 150°59'E], Queensland, 9–19 Dec 1983, V.E. Davies & J. Gallon, pitfall, rainforest (S 30777) (QM). PARATYPES: 2♀, same data as holotype except (Three Moon Ck) (S 30775). (QM).

**Other material examined.** QUEENSLAND: 1♂, Kroombit Tops, SSW of Calliope, Beauty Spot 98, 24°22'S 150°59'E, 29 Sep 1985, GBM, 860 m, litter, rainforest (S 46475). 1♀, Kroombit Tops, 45 km SSW of Calliope, 24°24'S 151°01'E, 10 Sep 1983, GBM *et al.*, 890 m, litter, rainforest (S 30778). 2♀, Kroombit Tops, SSW of Calliope, Three Moon Scrub, 24°25'S 151°03'E, 30 Sep 1985, GBM, 940 m, litter, rainforest (S 30752) (all QM).

**Diagnosis.** Can be separated from *Oz. affinis* by the tarsal rod being elongate with keyhole shaped opening (Fig. 6c, g–h), by the male palpal trochanter having a single stridulatory spine and by the female epigynum having lateral teeth (Fig. 11d); from *Oz. kroombit* and *Oz. summa* by the form of the male MA and RTA (Fig. 11a–b), by the cymbium having basal apophyses (Fig. 11c) and by the gonopore openings on the female epigynum being well separated (Fig. 11d–e).

**Description.** *Male.* Measurements: BL 3.40, CL 1.80, CW 1.28, PLE 0.25, PME 0.15, (QM, S 30777). *Female.* Measurements: BL 3.84, CL 1.86, CW 1.30, PLE 0.26, PME 0.18, (QM S 30775). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name is a noun in apposition taken from the type locality.

**Distribution.** Kroombit Tops area, south east Queensland (Fig. 26).

### *Oztira summa* (Davies) new combination

Figs 6d, 12a–d, 26

*Otira summa* Davies, 1986: 237–8, figs 2–8, 27–30, 38–39.

**Type material examined.** HOLOTYPE ♀, Bellenden Ker Range, [17°12'S 145°51'E], Queensland, 1–7 Nov 1981, Earthwatch/Queensland Museum Expedition, litter, mossy microphyll forest, 1560 m, (S 1365) (QM). PARATYPES: 1♂, Same data as holotype except 25–31 Oct 1981 (S 1366). 1♂, same data except 17–24 Oct 1981 (S 1367) (both QM).

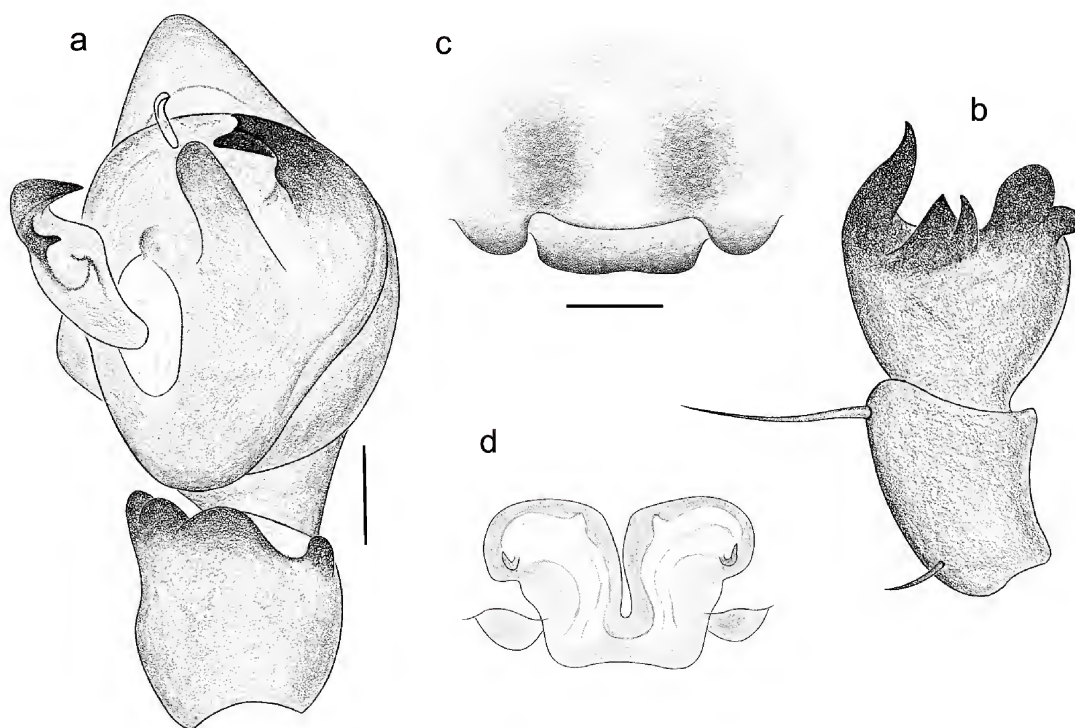


Fig. 10. *Oztira aquilonaria*. (a–b) right male palp (S1371): (a) ventral, (b) RTA, retrolateral. (c–d) female genitalia: (c) epigynum, ventral (S1371); (d) internal (S1377). Scale lines 0.1 mm.

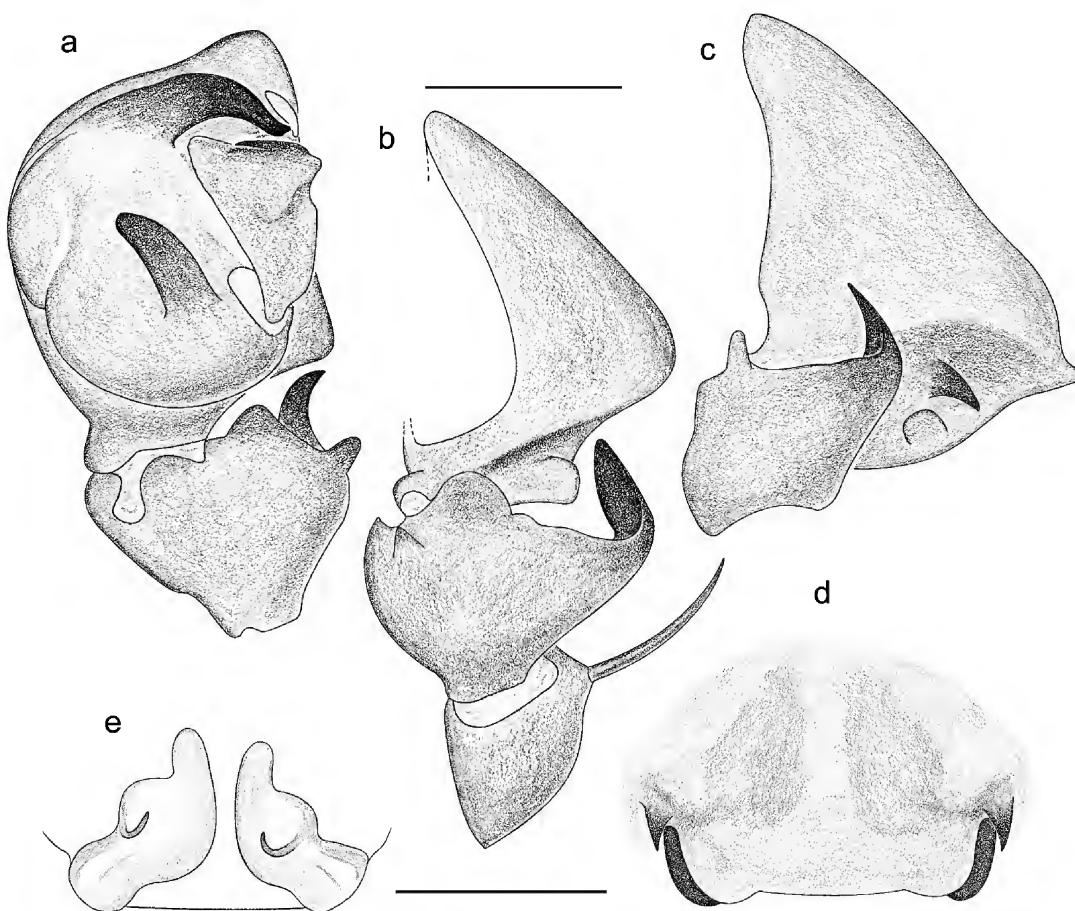


Fig. 11. *Oztira kroombit*. (a–c) male palp (S30777): (a) ventral; (b) RTA, retrolateral; cymbium and RTA, dorsolateral. (d–e) female genitalia: (d) epigynum, ventral (S30752); (e) internal (S30778). Scale lines 0.25 mm.

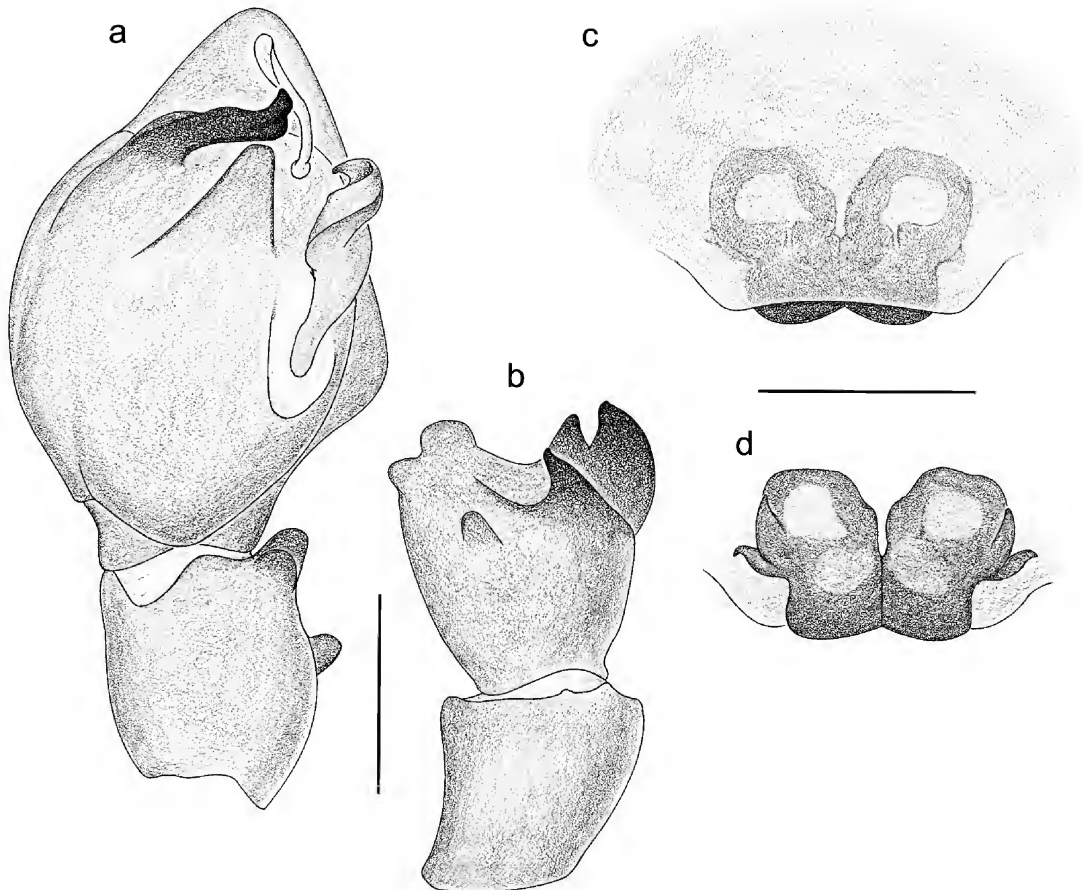


Fig. 12. *Oztira summa*. (a–b) male palp (S20783): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia (S1365): (c) epigynum, ventral; (d) internal. Scale lines 0.25 mm.

**Other material examined.** QUEENSLAND: 1♂, Bellenden Ker summit, 17°16'S 145°52'E, 28 Aug–8 Oct 1991, GBM & Janetzki (S20783). 1♀, Bellenden Ker Range Summit TV Stn., Oct–Dec 1982, 1560 m, S. Montague, rainforest (S 30776) (both QM).

**Diagnosis.** Can be separated from *Oz. affinis* by the tarsal rod being elongate with keyhole shaped opening (Fig. 6d and Davies, 1986; figs 28 & 38), by the male palpal trochanter having a single stridulatory spine and by the female epigynum having fused gonopore openings (Fig. 12c–d); from *Oz. kroombit* by the male cymbium lacking apophyses and the gonopore openings on the female epigynum being fused (Fig. 12c–d); from *Oz. aquilonaria* by the form of the MA and RTA, which lacks a prominent pointed dorsal apophysis, of the male palp (Fig. 12a–b) and by the posterior margin of the fused sclerotized gonopore openings of the female epigynum being incised (Fig. 12c).

**Description.** *Male.* Measurements: BL 4.0, CL 2.25, CW 1.50, PLE 0.27, PME 0.15 (QM, S 1366). *Female.* Measurements: BL 4.25, CL 2.25, CW 1.40, PLE 0.30, PME 0.17 (QM, S1365). For morphological description see species diagnosis and generic description.

**Distribution.** Known only from the summit of Mt Bellenden Ker in North East Queensland. (Fig. 26).

**Remarks.** The view of the RTA illustrated by Davies (1986, fig. 7) is dorsal rather than retrolateral as stated.

## Genus *Storenosoma* Hogg

*Storenosoma* Hogg, 1900: 95. Type species: *Storenosoma hoggi* (Roewer, 1942).

**Diagnosis.** *Storenosoma* can be distinguished from other amaurobiids except *Otira*, *Oztira* and *Pakeha* by the possession of paired stridulatory spines on the trochanter of the male palp (Fig. 3c) and associated stridulatory field on prolateral face of the coxa of leg 1 (Fig. 3d); from *Otira* and *Pakeha* by both eye rows strongly procurved, PLE and to a lesser extent PME enlarged (Fig. 1a–c) and tarsal organ capsulate or, if peg-like, being situated proximal to trichobothria (Figs 7–8); from *Oztira* by metatarsus on leg 1 of male being cylindrical (Fig. 4e).

**Description.** Medium sized (CL 3.0–5.6), ecribellate, ground dwelling spiders. Cephalothorax, legs and chelicerae golden to orange brown. Cephalothorax often with darker dorsal markings in radial pattern around fovea, region around eyes very dark, chilum absent. Both eye rows strongly procurved, posterior eyes, particularly PLE, enlarged. ALE with canoe shaped tapetum, PME with flocculent reflective layer and PLE with diffuse reflective layer (pers obs). Chelicera vertical with prominent retrobasal boss, two retromarginal and two promarginal teeth, promargin also with row of minute teeth distal and slightly posterior to large teeth (Fig. 3a). Paturon with numerous sensory hairs toward promargin of fang groove and a particularly elongate hair at fang base,

single elongate hair at fang base on retromargin. Maxillae slightly longer than wide, lateral margins convex, with strong linear serrula. Labium about as wide as long, with notched apex. Paired stridulatory spines on the trochanter of the male palp and associated stridulatory field on prolateral face of coxa 1. Cymbium of male palp with trichobothria (Fig. 3b) and retrolateral bulge associated with basal depression (Figs 2c,d). Complex RTA. Stout, blunt to pointy tipped embolus, membranous conductor, complex MA often with proximal or prolateral processes, TA well developed to absent. Legs with dark banding and blotches. Legs 4123. Trochanters of legs 3–4 shallowly notched. Tibia and metatarsi of legs strongly spinose, tarsal organ capsulate or rod like, trichobothrial hoods longitudinally striated, preening combs on metatarsi 2–4 (Fig. 3e). Abdomen grey brown, flecked with darker and lighter spots, sometimes with paired, dark coloured chevrons in distal half. Epigynum with lateral teeth and distinctly sclerotized gonopore openings, spermathecae and copulatory ducts simple.

**Remarks.** The species are all quite similar in appearance and can only be confidently separated on the basis of genital morphology. Only male characters are used in the key as females are not known for all species, the genitalia of the known species are fairly conservative and, similar to *Oztira*, the epigyna of most females collected are plugged with a hard, dark resinous substance which obscures external and to some extent internal characters, making specific identification difficult. This substance is extremely tough and is deposited both internally and externally on the

epigynum. The author was unable to remove it mechanically or chemically using bleach solution or potassium hydroxide solution. This plug is most likely produced by the male in a similar fashion to that of *Amaurobius* C.L. Koch 1837 (Suhm *et al.*, 1996) and also noted by Davies (2003) in *Tangana* Davies, 2003. Forster & Wilton (1973) also noted mating plugs in *Pakeha minima* Forster & Wilton, 1973. Whether these plugs completely preclude further matings is debatable. Eberhard (1985) argues that female mate selection is the driving force behind interspecific differences in male genitalia and for it to operate multiple matings must occur. However, as in *Amaurobius*, the mating plug in *Storenosoma* is very tough and it is difficult to envisage it being removed by mechanical means. It seems likely that the “lateral epigynal protuberances” described by Davies (1998) for *Tasmarubrius* Davies, 1998 are similar mating plugs. Davies (2002) also mentions plugs in the epigyna of some specimens of *Tasmabrochus cranstoni* Davies, 2002. Also notable is the variation in the tarsal organ within this genus. Most species have the tarsal organ capsulate and distal to the trichobothria. In three species it is situated between the first and second trichobothrium and in one of these it is raised somewhat. One species has a rod like tarsal organ situated proximal to the trichobothria, similar to *Oztira*.

**Included species.** *Storenosoma altum* Davies, *S. bifidum* n.sp., *S. bondi* n.sp., *S. forsteri* n.sp., *S. grayi* n.sp., *S. hoggi* (Roewer), *S. grossum* n.sp., *S. picadilly* n.sp., *S. smithae* n.sp., *S. supernum* Davies, *S. tasmaniensis* n.sp., *S. terraneum* Davies and *S. victoria* n.sp.

### Key to males of *Storenosoma* species

- 1 Tarsal organ rod shaped (Figs 7a,e–f) ..... *S. grayi*  
 — Tarsal organ capsulate ..... 2
- 2 Cymbium of palp with basal swelling topped by 2–4 stout macrosetae (Fig. 24a) .... *S. terraneum*  
 — Cymbium of palp without basal swelling, with or without basal macrosetae ..... 3
- 3 Cymbium of palp with 2–3 basal macrosetae (Fig. 25b) ..... *S. victoria*  
 — Cymbium of palp without basal macrosetae ..... 4
- 4 Embolus with distinctly bifid tip (Fig. 14a) ..... *S. bifidum*  
 — Embolus tip not distinctly bifid ..... 5
- 5 MA with distinct proximal projection (Figs 13a, 15a, 19a) ..... 6  
 — MA with short or indistinct proximal projection (Figs 18a, 21a, 24a) ..... 10
- 6 Proximal projection of MA curved prolaterally (Figs 13a, 16a, 20a) ..... 7  
 — Proximal projection of MA not curved prolaterally (Figs 15a, 19a) ..... 9
- 7 TA obvious (Fig. 13a, 20a) ..... 8  
 — TA hardly apparent (Fig. 16a) ..... *S. forsteri*
- 8 TA single (Fig. 13a) ..... *S. altum*  
 — TA double (Fig. 20a) ..... *S. picadilly*
- 9 TA large with broad, rounded tip (Fig. 19a) ..... *S. hoggi*  
 — TA smaller, triangular, with pointed tip (Fig. 15a) ..... *S. bondi*
- 10 Embolar base with lobe (Figs 2a,b, 22a, 23a) ..... 12  
 — Embolar base without lobe (Figs 18a, 21a) ..... 11

- 11 RTA with prominent basal projection (Fig. 21b) ..... *S. smithae*  
 — RTA without prominent basal projection (Fig. 18b) ..... *S. grossum*
- 12 MA oblong (Fig. 22a). TA absent ..... *S. supernum*  
 — MA bean-shaped (Fig. 23a). TA present ..... *S. tasmaniensis*

### *Storenosoma altum* Davies

Figs 4e, 7b,g–h, 13a–d, 27b

*Storenosoma alta* Davies, 1986: 242, figs 24–26, 37.

**Type material examined.** HOLOTYPE ♀, Poverty Point, near Tenterfield, 1160 m, 29°08'S 152°17'E, New South Wales, 2 Oct 1978–21 Feb 1979, G.B. Monteith, pitfall trap, (S 1383) (QM). PARATYPES: 1♂, same data as holotype (S 1384). 1♀, same data (S 1385) (both QM).

**Other material examined.** QUEENSLAND: 1♀, Binna Burra, [28°12'S 153°11'E], Lamington National Park, 28 Mar 1976, RR & V. Davies (S 30755) (QM). 1♀, Cunningham's Gap, [28°03'S 152°24'E], Main Range National Park, 28 Jun 1991, D. Black (95/1190) (WAM).

NEW SOUTH WALES: 4♂, Banda Banda Beech Reserve, Mt Boss State Forest, NW of Wauchope, 31°10'S 152°26'E, Oct 1980, G. Webb (KS42830). 2♀, Banda Banda Flora Reserve, Banda Rd, 3 km E of Hastings Forest Hwy, 31°09'S 152°24'E, 4 Feb–9 Apr 1993, MRG & GC (KS42537). 7♀, same data (KS42538). 1♀, same data (KS42539). 2♂, Barrington Tops NP, Gloucester Tops Rd, 32°03'45"S 151°36'02"E, 13 Nov–19 Dec 2007, GAM & H. Smith (KS102949). 1♀, same data (KS102973). 1♂, Barrington Tops NP, Quarry Rd turnoff, 31°54'45"S 151°31'10"E, 30 Apr 2008, GAM & A. Hegedus (KS105023). 1♂, same data except 18 Mar–30 Apr 2008 (KS103917). 4♂, 2♀, same data except 14 Nov–18 Dec 2007, GAM & H. Smith (KS104654). 3♂, 1♀, same data (KS104642). 1♀, Barrington Tops SF, 0.8 km E of Moppy Picnic Area, 31°53'22"S 151°33'57"E, 14 Nov–18 Dec 2007, GAM & H. Smith (KS104665). 1♀, same data except 18 Mar–30 Apr 2008, GAM & A. Hegedus (KS103896). 1♀, same data except 18 Dec 2007–31 Jan 2008 (KS102091). 1♂, Barrington Tops Reserve, Nth Branch Rd, 31°52'41"S 151°29'32"E, 18 Mar–30 Apr 2008, GAM & A. Hegedus (KS103933). 1♀, same data except 31 Jan–18 Mar 2008 (KS103359). 2♀, 19.5 km NW of Bellingen, Dorrig-Bellingen Rd, 30°24'S 152°44'E, 18

Feb 1993, MG & GC (KS35276). 1♀, Beauray State Forest, Bennetts Rd, 10 km NW of Urbenville, 28°25'S 152°27'E, 4 Feb–9 Apr 1993, MRG & GC (KS36080). 13♂, 2♀, Mt Boss State Forest (Cock), 31°12'S 152°24'E, Oct 1980, G. Webb (KS42843). 1♂, same data except (Blue) (KS42846). 1♂, same data except (Kota) (KS69890). 1♀, same data except (Valley) (KS69888). 19♂, 2♀, same data except (Fenwicks) (KS43512). 17♂, 2♀, same data except (Thumb) (KS43534). 2♂, 1♀, same data except (Sth Plateau) (KS69889). 2♀, Mt Boss State Forest, North Plateau Rd, 3.5 km from Plateau Beach Picnic Area, 31°11'S 152°20'E, 4 Feb–9 Apr 1993, MRG & GC (KS42536). 2♀, same data except 1.5 km (KS42546). 1♀, Mt Boss State Forest, Rimau Rd, 13.8 km E of Cockerawombeeba Rd, 31°11'S 152°22'E, 4 Feb–9 Apr 1993, MRG & GC (KS42540). 1♀, Carrai Bat Cave, near Carrai, 31°01'S 152°20'E, 26 Apr 1974, MRG (KS44939). 1♀, Carrai State Forest, Fife's Knob Rd, 30°54'S 152°22'E, 4 Feb–9 Apr 1993, MRG & GC (KS41331). 2♂, Chichester State Forest, 0.1 km N of Trig Tower, 32°06'S 151°45'E, 4 Feb–9 Apr 1993, MRG & GC (KS42530). 1♀, same data (KS42528). 1♀, same data (KS42529). 1♀, Chichester State Forest, Mt Allyn Rd, adjacent to Mt Allyn Forest Park, 32°07'S 151°25'E, 4 Feb–9 Apr 1993, MRG & GC (KS41365). 1♀, Chichester State Forest, Lumeah Rd, 1.7 km from Mt Allyn Rd, 32°06'S 151°26'E, 4 Feb–9 Apr 1993, MRG & GC (KS41370). 3♀, Chichester State Forest, Berrico Rd, 2 km S of Kunungra Rd junction, 32°05'S 151°45'E, 4 Feb–9 Apr 1993, MRG & GC (KS41375). 3♀, Chichester State Forest, Kunungra & Berrico Rds intersection, 32°06'S 151°46'E, 4 Feb–9 Apr 1993, MRG & GC (KS41376). 3♂, 11♀, Dorrig National Park, Dome Rd, 2 km W of Never Never Picnic Area, 30°21'S 152°47'E, 4 Feb–9 Apr 1993, MRG & GC (KS35262). 5♀, Dorrig National Park, Wonga Walk, 0.2 km SW of Hardwood Lookout, 30°22'S 152°54'E, 4 Feb–9 Apr 1993, MRG & GC (KS35265). 1♂, Enfield State Forest, Mummel Forest Road, 6.1 km N of junction with Enfield Rd, 31°17'S 151°51'E, 4 Feb–9 Apr 1993, MRG & GC (KS40814). 2♀, same data (69892). 2♀, same data except 7.6 km N (KS69893). 2♀, Ewingar State Forest, tributary of Grassree Creek, Nogrigar Rd, 29°08'S 152°25'E, 4 Feb–9 Apr 1993, MRG & GC (KS42523). 1♀, Ewingar State Forest,

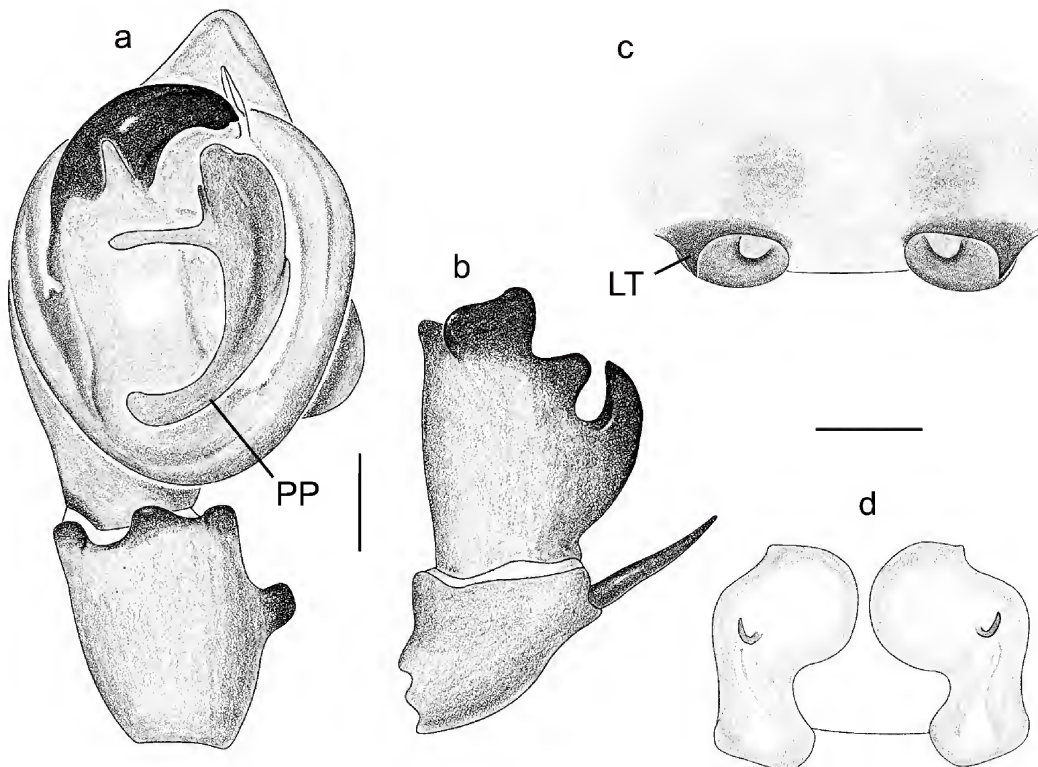


Fig. 13. *Storenosoma altum*. (a–b) male palp (KS42843): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia: (c) epigynum, ventral (KS42548); (d) internal (KS42549). Scale lines 0.25 mm.

North Ewingar Rd, 29°08'S 152°25'E, MRG & GC (KS42522). 1♀, above Kunderang Station Creek, northeast facing slope, 30°48'S 152°06'E, 4 Feb–9 Apr 1993, MRG & GC (KS40817). 3♀, London Bridge State Forest, 2.7 km SW of London Bridge, 29°51'S 152°13'E, 4 Feb–9 Apr 1993, MRG & GC (KS37252). 2♀, Mt Lumeah, west flank, Chichester State Forest, near Dungong, 32°06'S 151°11'E, Jan 1976, MRG (KS1425). 1f, on Mountain Rd, 0.2 km S of junction with Kunungra Rd, 32°08'S 151°44'E, 4 Feb–9 Apr 1993, MRG & GC (KS42525). 1♀, New England National Park, Cliffs Trail, 2 km S of Point Lookout Rd gate, 30°30'S 152°23'E, 4 Feb–9 Apr 1993, MRG & GC (KS35286). 3♀, Ramornie State Forest, Mt Tindal Rd, 29°41'S 152°35'E, 4 Feb–9 Apr 1993, MRG & GC (KS40950). 1♀, same data (KS40951). 3♀, same data (KS40952). 1♀, Stewarts Brook State Forest, Bull Gully, near junction of Bull Gully & Bull Ridge Rds, 31°57'S 151°22'E, 4 Feb–9 Apr 1993, MRG & GC (KS42521). 1♀, Stewarts Brook SF, Polblue Ridge Rd, 31°56'59"S 151°23'40"E, 18 Mar–30 Apr 2008, GAM & A. Hegedus (KS103953). 1♀, same data except 18 Dec 2007–31 Jan 2008 (KS102091). 1♀, Stydy Creek headwater, leasehold land, 28°45'S 152°17'E, 18 Feb 1992, MRG & GC (KS37206). 1♀, Styx River State Forest, bottom end of Cliffs Trail, 1.3 km from Oxley Rd, 30°33'S 152°20'E, 4 Feb–9 Apr 1993, MRG & GC (KS35287). 1♀, same data except 2.8 km from Oxley Rd, 30°33'S 152°21'E (KS35292). 3♀, same data except 3.8 km NE of Oxley Rd (KS35293). 1♀, Styx River State Forest, off Cunawarra Trail, 30°32'S 152°20'E, 4 Feb–9 Apr 1993, MRG & GC (KS35298). 1♂, Washpool National Park, track off Cedar Trail, 29°28'S 152°20'E, 4 Feb–9 Apr 1993, MRG & GC (KS37230). 4♀, same data (KS37226). 4♀, same data (KS37234). 3♂, Washpool State Forest, Area 17, Series C, midslope, 29°16'S 152°22'E, 9 Mar 1992, MRG & P.Croft (KS38014). 2♂, same data (KS38015). 1♂, same data (KS38017). 1♂, same data (KS38018). 2♂, same data (KS38019). 1♀, same data (KS38020). 1♀, same data (KS38021). 1♀, same data (KS38022) (all AMS). 2♂, Banksia Pt., New England NP, 30°29'S 152°24'E, 2–15 Oct 1984, Naumann & Cardale. 1♀, Dorriggo NP, 30°22'S 152°45'E, 2–15 Oct 1984, Naumann & Cardale. 12♂, Tom's Cabin, New England NP, 30°30'S 151°34'E, 2–15 Oct 1984, Naumann & Cardale (all ANIC). 3♀, Never Never, Dorriggo, [30°22'S 152°51'E], 12 Nov 1980–16 Mar 1981, GBM (S 30745). 1♀, same data (S 30746). 1♀, same data except 22 Mar–12 Nov 1980 (S 30759). 1♂, 1♀, same data (S 30751). 1♀, New England National Park, 22 Mar 1980, GBM (S 30757). 1♂, 1♀, Point Lookout Lower, New England National Park, 22 Mar–2 Nov 1980, GBM (S 30754). 1♀, Point Lookout Upper, New England National Park, 11 Nov 1980–16 Mar 1981, GBM (S 30749). 3♀, same data except 21 Mar–2 Nov 1980 (S 30742). 1♀, Poverty Point (creek), [29°08'S 152°17'E], via Tenterfield, 2 Oct 1978–21 Feb 1979, GBM (S 30747). 4♂, 3♀, West

Gibraltar, 31 Mar–11 Nov 1980 GBM (S 30787). 2♂, 1♀, same data (S 30741). 1♂, 2♀, Poverty Point, 1160 m, [29°08'S 152°17'E], 27 May–3 Oct 1978, GBM (S 30743) (all QM).

**Diagnosis.** Male palp (Figs 13a–b) with well-developed, narrow TA. MA with elongate, prolaterally curved proximal projection and slender prolateral projection. Palpal patella with one, stout dorsal spine, palpal tibia with single slender dorsal spine. Female epigynum with strong lateral teeth (Fig. 13c). Tarsal organ capsulate (Fig. 7g–h), situated between trichobothria 1 and 2, slightly raised.

**Description.** *Male.* Measurements: BL 6.25, CL 3.50, CW 2.75, PLE 0.33, PME 0.23 (QM, S1384). *Female.* Measurements: BL 7.85, CL 3.60, CW 2.64, PLE 0.35, PME 0.22 (QM, S1383). For morphological description see species diagnosis and generic description.

**Distribution.** North eastern New South Wales and south eastern Queensland (Fig. 27b).

**Remarks.** The female holotype has the epigynum plugged.

### *Storenosoma bifidum* n.sp.

Figs 14a–d, 27c

**Type material.** HOLOTYPE ♂, 10.4 km NW of Toorongo, 37°44'S 146°01'E, DCE Upper Yarra site 2, 14–24 Nov 1988, L. Lumsden (K 10768) (NMV). PARATYPES, 24♂, same data as holotype (K 3994). 1♂, same data (K 3993). 1♂, same data (K 3992). 2♀, same data (K 4039) (all NMV).

**Other material examined.** VICTORIA: 1♀, Mt Worth State Park, near Seaview, 38°16'S 145°59'E, 23 Mar 1978, MRG (KS45281) (AMS). 1♂, Otway Ranges, Phillips Track, 0.5 km N of Triplet Falls, 38°40'S 143°29'E, 31 Jan to 11 Apr 1995, GAM (K 4027). 1♂, Otway Ranges, Young Creek Rd, 0.4 km NW of Triplet Falls, 38°40'S 143°29'E, 6 Sep to 15 Nov 1994, GAM

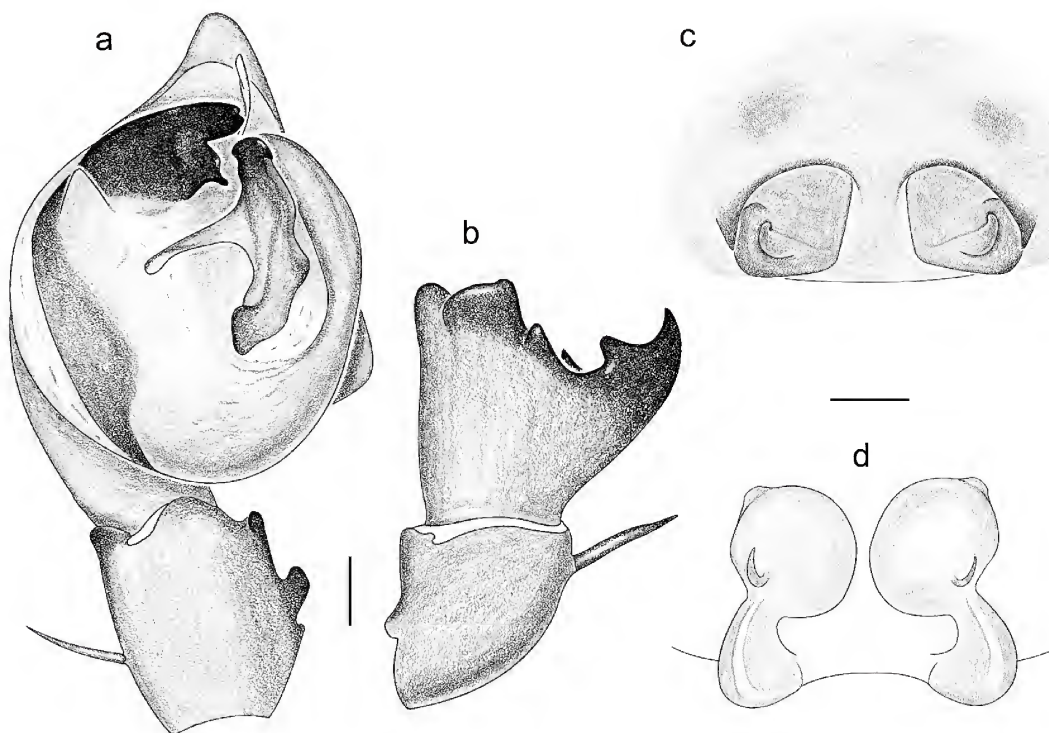


Fig. 14. *Storenosoma bifidum*. (a–b) male palp (K3994): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia (K4113): (c) epigynum, ventral; (d) internal. Scale lines 0.25 mm.

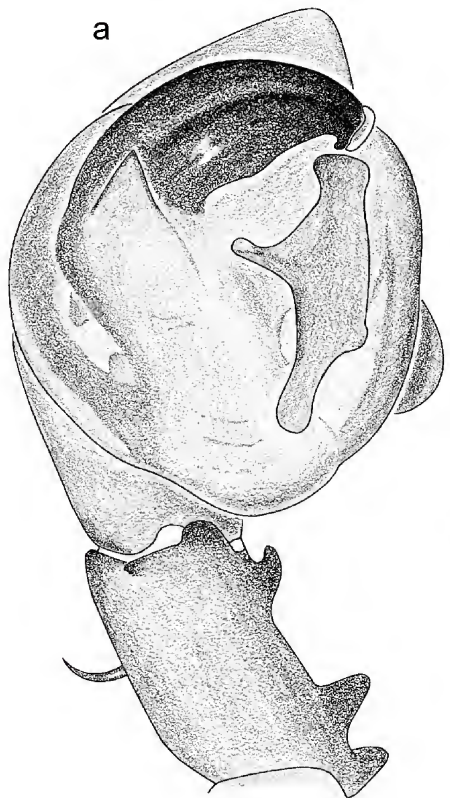
(K 4025). 1♂, Otway Ranges, Young Creek Rd, 0.2 km NE of Ciancio Creek crossing, 38°42'S 143°29'E, 15 Nov 1994 to 31 Jan 1995, GAM (K 4026). 3♂, Strzelecki Ranges, Tarra-Bulga Nat. Pk, 0.5 km NNE of Tarra Valley Picnic Area, 38°26'40"S 146°32'30"E, 14 Nov 1995 to 10 Jan 1996, GAM (K 4029). 2♂, same data (K 4028). 1♀, same data (K 4113). 1♀, same data except 5 Mar–7 May 1996 (K 4030). 2♂, Strzelecki Ranges, Tarra-Bulga Nat. Pk, 0.2 km W of Tarra Valley Picnic Area, 38°27'S 146°32'E, 14 Sep to 14 Nov 1995, GAM (K 4031). 3♂, same data except 14 Nov 1995–10 Jan 1996 (K 4032). 1♀, same data except 5 Mar–7 May 1996 (K 4033). 1♂, Strzelecki Ranges, Tarra-Bulga Nat. Pk, Bulga Picnic Area, 38°25'30"S 146°34'20"E, 14 Sep to 14 Nov 1995, GAM (K 4034). 2♂, same data except 14 Nov 1995 to 10 Jan 1996 (K 4035). 1♂, Strzelecki Ranges, Gunyah-Toora Rd, 2 km SSW of Gunyah Gunyah, 38°32'30"S 146°19'E, 14 Sep to 14 Nov 1995, GAM (K 4036). 4♂, same data except 14 Nov 1995 to 10 Jan 1996 (K 4037). 1♂, Sherbrooke Forest, Aug 1974 (K 4038) (all NMV).

**Diagnosis.** Male palp (Figs 14a–b) with short, triangular TA. MA with short proximal projection and slender prolateral projection. Embolus with stout, bifurcate tip. Palpal patella with one dorsal spine, palpal tibia with single prolateral spine. Female epigynum (Figs 14c–d) with small lateral teeth, sclerotized gonopore openings prominent, with distinctly angled inner margin. Tarsal organ capsulate, situated distally to trichobothria.

**Description.** *Male.* Measurements: BL 9.40, CL 5.40, CW 3.85, PLE 0.44, PME 0.31 (MV, K 10768). *Female.* Measurements: BL 12.50, CL 5.60, CW 4.10, PLE 0.41, PME 0.25 (MV, K 4039). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name refers to the bifid tip of the male embolus.

**Distribution.** Known only from south central Victoria (Fig. 27c)



## *Storenosoma bondi* n.sp.

Figs 7d,j, 15a–b, 27c

**Type material.** HOLOTYPE ♂, Bondi State Forest [southeastern New South Wales, Australia], G. Gowing *et al.*, 37°08'S 149°09'E, 4 Jul 1980 (AMS KS52413). PARATYPES: 1♂, same data as holotype (AMS KS86737). 1♀, same data except 1980 (AMS KS71789).

**Other material examined.** NEW SOUTH WALES: 3♂, Bondi State Forest, G. Gowing *et al.*, 3 Aug 1980 (KS18071). 1♂, same data except 14 Nov 1980 (KS69897). 1♂, same data except 25 Oct 1980 (KS69898). 1♂, same data as except 37°07'S 149°08'E, 27 Aug 1980 (KS69095). 1♂, same data as except 4 Jul 1980 (KS69720). 1♂, same data as except 37°07'S 149°08'E, 3 Aug 1980 (KS69095) (also KS81295–81305) (all AMS). 2♂, Kosciuszko NP, Mt Clarke, 36°26'21"S 148°17'47"E, Apr 2005, K. Green (ANIC).

**Diagnosis.** Male palp (Figs 15a–b) with short triangular TA. MA with moderately elongate proximal projection expanding to paddle shaped tip and with rather short and broad prolateral projection. Embolus with pointed tip. Palpal patella with one dorsal spine, palpal tibia with single slender prolateral spine. Female epigynum unknown. Tarsal organ capsulate (Fig. 7d–j), situated between trichobothria 1 and 2.

**Description.** *Male.* Measurements: BL 6.90, CL 3.65, CW 2.94, PLE 0.31, PME 0.22, (AMS KS52413). *Female.* Measurements: BL 6.50, CL 3.00, CW 2.12, PLE 0.30, PME 0.20, (AMS KS71789). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name is noun in apposition taken from the type locality.

**Distribution.** Known only from the south east corner of New South Wales (Fig. 27c).

**Remarks.** The single female specimen attributed to this species above has the epigynum plugged making it's morphology unclear. For this reason it has not been illustrated. However, the relatively wide separation of the sclerotized gonopore openings compared to those of *S. hoggi*, the only sympatric species of similar size, suggests it is most likely *S. bondi*.

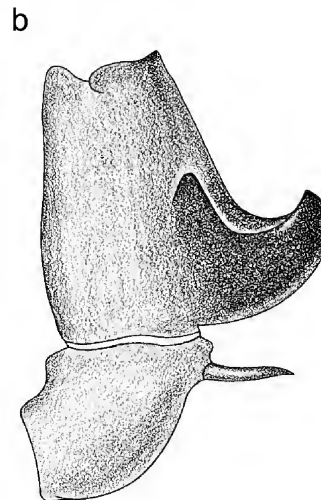


Fig. 15. *Storenosoma bondi*. (a–b) male palp (KS18071): (a) ventral; (b) RTA, retrolateral. Scale line 0.25 mm.

*Storenosoma forsteri* n.sp.

Figs 8a,e, 16a–d, 27a

**Type material.** HOLOTYPE ♂, Mt Wilson, Waterfall Picnic Area Trail, 33°30'S 150°23'E, 17 Jun 1979, CH (AMS KS3136). PARATYPES 3♂, same data (AMS KS86738). 2♀, Kanangra-Boyd National Park, Blood Filly Creek near Jenolan Caves, 33°53'S 150°04'E, 27 Mar 1976, MRG *et al.* (AMS KS29973).

**Other material examined.** AUSTRALIAN CAPITAL TERRITORY: 3♂, 2♀, Tidbinbilla Nature Reserve, 35°28'S 148°52'E, 9 Mar 1978, P. Ormay (KS14292). 1♀, same data (KS13845). 1♀, same data (KS13952). 1♀, same data (KS14271) (all AMS).

NEW SOUTH WALES: 3♂, Barren Grounds Nature Reserve, 14 km NW of Jamberoo, 33°40'28"S 150°42'45"E, 1–5 Jun 1999, L. Gibson (KS69799). 1♂, same data except 21–25 Jun 1999 (KS69800). 1♂, same data except 16–20 Aug 1999 (KS69801). 1♂, 1♀, same data except 21–25 Aug 1999 (KS69802). 5♂, Blue Mountains N.P., Binnowee Drive, 33°40'15"S 150°27'55"E, 15 Aug 1996, AMS KS53262. 3♂, same data (KS53263). 1♂, same data (KS53264). 2♂, same data (KS53265). 1♂, same data (KS53266). 1♀, same data (KS53267). 1♂, same data (KS53268). 1♂, same data (KS53269). 3♂, 1♀, same data (KS53270). 2♂, same data (KS53271). 2♂, same data (KS53272). 2♂, same data (KS53273). 1♂, same data (KS53274). 1♂, same data (KS53275). 3♂, same data (KS53276). 1♂, same data (KS53277). 1♂, same data (KS53278). 2♂, same data (KS53279). 1♂, same data (KS52408). 2♂, same data (KS52407). 1♀, Brindabella, Rules Point Rd., 35°24'S 145°45'E, 1 Apr 1988, M. Zabka & G. Hunt (KS44975). 1♂, Gordon, 33°44'S 151°09'E, 18 Jul 1982, CH (KS9751). 1♂, same data except 21 Jul 1983 (KS12643). 2♂, Hazelbrook, Coates Park, 33°43'45"S 150°20'45"E, 22 Aug 1996, AMS KS53280. 1♂, same data (KS53281). 1♂, same data (KS53282). 1♂, same data (KS53283). 1♂, same data (KS53284). 91♂, 3♀, Jenolan Caves, 'Playing Fields', 33°49'S 150°02'E, 6 Jul 1989, G. Hunt (KS21655). 104♂, 1♀, same data except 14 Aug 1989 (KS22524). 24♂, 1♀, Jenolan Caves area, Southern Limestone Area, 33°49'S 150°02'E, 6 Jul 1989, G. Hunt (KS21668). 17♂, 3♀, same data except 14 Aug 1989 (KS22532). 1♀, Kanangra Boyd National Park,

33°59'S 150°08'E, 8 Jun 1971, G. Hunt (KS52410). 1♂, Kanangra-Boyd National Park, Blood Filly Creek near Jenolan Caves, 33°53'S 150°04'E, 27 Mar 1976, MRG *et al.* (KS29846). 2♂, 1♀, same data (KS29989). 4♂, 1♀, Kanangra-Boyd Nat. Pk., Boyd Plateau, 33°56'S 150°08'E, 1972, MRG (KS30404). 1♀, Kanangra-Boyd National Park, Empress Firetrail turnoff, 33°59'S 150°08'E, 27 Mar 1976, MRG *et al.* (KS29488). 16♂, Mt Kembla, Sydney Catchment Authority Reserve, 34°26'33"S 150°44'24"E, 6–10 Aug 1999, L. Gibson (KS69796). 11♂, 1♀, same data except 16–20 Aug 1999 (KS69795). 3♂, same data except 21–25 Aug 1999 (KS69798). 1♂, same data except 6–10 Jun 1999 (KS69791). 3♂, same data except 11–15 Aug 1999 (KS69797). 5♂, same data except 1–5 Aug 1999 (KS69794). 1♂, 1♀, same data except 16–20 Jun 1999 (KS69792). 1♀, same data except 11–15 Dec 1998 (KS69789). 1♀, same data except 1–5 Jun 1999 (KS69790). 1♀, same data except 21–25 Jun 1999 (KS69793). 1♂, Mt Wilson, Cathedral of Ferns area, 33°30'S 150°23'E, 16 Jun 1978, CH (KS1547). 2♂, same data (KS69845). 6♂, 1♀, same data except 14 Jul 1978, MRG (KS1639). 3♂m, 2♀, same data except 14 Aug 1978, CH (KS1678). 3♂, same data except 7 Sep 1978 (KS69844). 3♂, same data except 5 Oct 1978 (KS1996). 2♂, same data except 1 Nov 1978, MRG & CH (KS2044). 1♂, same data except 17 Jun 1979, CH (KS3819). 1♀, same data, (KS69887). 2♀, same data except 28 Jan 1979 (KS2635). 2♂, same data except 17 Jul 1979 (KS3843). 1♂, same data except 12 Aug 1979 (KS3883). 1♀, same data except 4 Oct 1979 (KS5482). 5♂, Wahroonga Fox Valley Reserve, 33°42'S 151°08'E, 1 Sep 1979, B. Henke (KS5372). 1♀, same data except 5 Jan 1980 (KS6312). 1♀, same data except 13 Jan 1980 (KS6340). 33♂, 4♀, Wombeyan Caves, hillside north of campground, 34°19'S 149°59'E, 7 Jul 1989, G. Hunt (KS21688). 36♂, same data except 14 Aug 1989 (KS22507). 1♂, same data (KS22546). 2♂, same data except 17 Jun 1990 (KS29658). 1♀, Woodford, Ridge St., 33°43'50"S 150°28'40"E, 30 Sep 1996, AMS KS52409 (all AMS).

**Diagnosis.** Male palp (Figs 16a–b) with reduced TA. MA with elongate proximal projection curving prolaterally, expanding to paddle shaped tip and with rather short and broad prolateral projection. Embolus with blunt tip. Palpal patella with one or two dorsal spines, palpal tibia with single

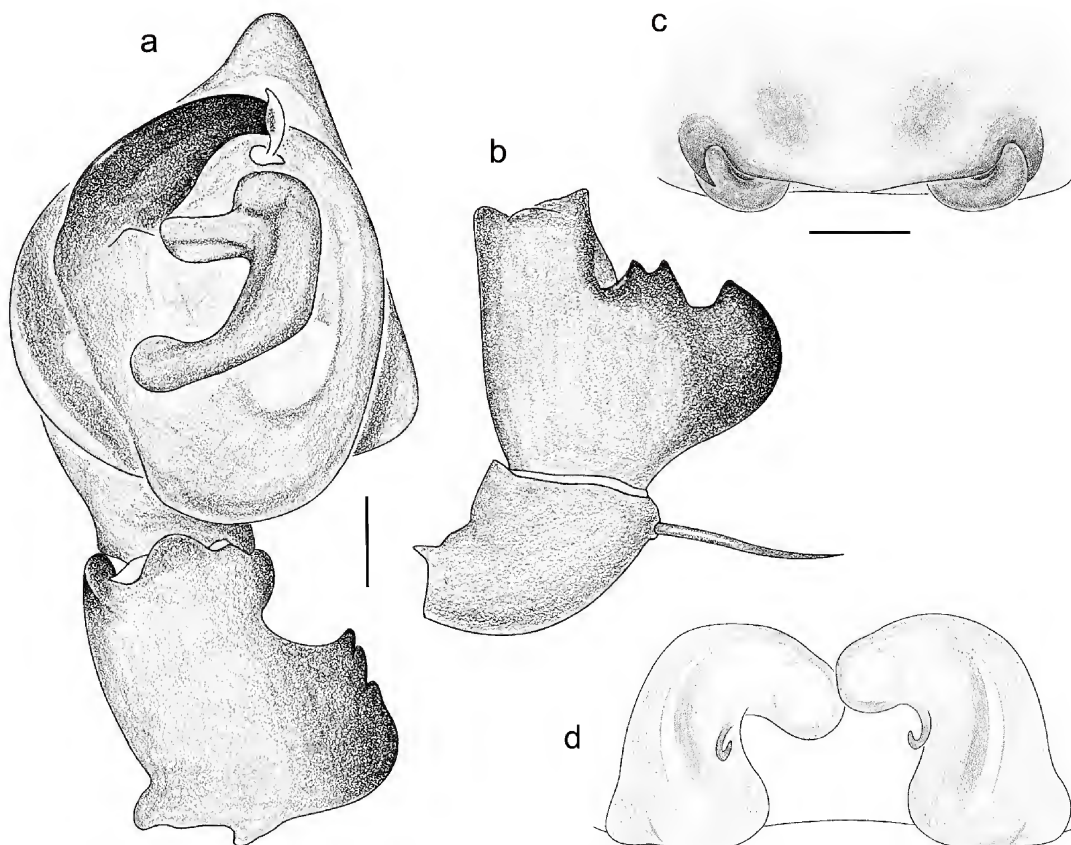


Fig. 16. *Storenosoma forsteri*. (a–b) male palp (KS3136): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia (KS29973): (c) epigynum, ventral; (d) internal. Scale lines 0.25 mm.

slender dorsal spine. Female epigynum (Figs 16c–d) with pronounced, hook-like lateral teeth. Tarsal organ capsulate (Figs 8a,e), situated distally to trichobothria.

**Description.** *Male.* Measurements: BL 7.50, CL 4.00, CW 3.15, PLE 0.37, PME 0.25 (AMS KS3136). *Female.* Measurements: BL 8.20, CL 3.30, CW 2.34, PLE 0.33, PME 0.20 (AMS KS29973). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name is in honour of the late Dr R. Forster who first illustrated the male palp of this species (Forster & Wilton, 1973: fig. 820).

**Distribution.** Known only from central eastern New South Wales (Fig. 27a)

***Storenosoma grayi* n.sp.**

Figs 7a,e–f, 17a–d, 27b

**Type material.** HOLOTYPE ♂, “Scalloway”, Willowvale, near Gerrigong, NSW, 34°45'S 150°50'E, 24 Jun 1989, G. Wishart (AMS KS31749). PARATYPES: 1♂, 1♀, Macquarie Rd, Buckenbowra State Forest, NSW, 35°38'09"S 149°53'16"E, 16 Mar 1999, L. Wilkie, R. Harris & H. Smith (AMS KS68199).

**Other material examined.** NEW SOUTH WALES: 1♀, Badja Fire Trail, Badja State Forest, 36°07'30"S 149°31'37"E, 13 Mar 1999, J. Tarnawski & S. Lassau (KS69903). 1♀, same data (KS69904). 3♀, Boundary Fire Trail, Monga State Forest, 35°37'22"S 149°54'43"E, 15 Mar 1999, L. Wilkie, R. Harris & H. Smith (KS69902). 1♀, Burkes Rd, Badja State Forest, 36°10'33"S 149°31'58"E, 13 Mar 1999, J. Tarnawski & S. Lassau (KS68201). 1♀, Coondella Fire Trail, Deua National Park, 35°58'44"S 149°53'05"E, 11 Mar 1999, J. Tarnawski & S. Lassau (KS69909). 1♀, same data except 35°58'47"S 149°53'13"E, (KS69910). 1♀, Dampier Mt Fire Trail, Deua National Park, 35°59'09"S 149°42'32"E, 11 Mar 1999,

J. Tarnawski & S. Lassau (KS69907). 2♀, same data except 35°58'26"S 149°41'20"E, (KS69908). 1♀, Macquarie Rd, Buckenbowra State Forest, 35°38'09"S 149°53'16"E, 16 Mar 1999, L. Wilkie, R. Harris & H. Smith (KS69911). 1♀, Peters Rd, Badja State Forest, 36°08'52"S 149°32'09"E, 13 Mar 1999, J. Tarnawski & S. Lassau (KS69906). 2♂, 5♀, Rocky Pic Rd, Tallaganda State Forest, 35°37'08"S 149°30'17"E, 15 Mar 1999, J. Tarnawski & S. Lassau (KS69899). 1♀, same data except 35°35'34"S 149°30'14"E, (KS69900). 1♂, 1♀, South Forest Way, Tallaganda State Forest, 35°42'50"S 149°32'20"E, 15 Mar 1999, J. Tarnawski & S. Lassau (KS69901). 1♀, Viola Creek Fire Trail, Badja State Forest, 36°05'24"S 149°34'51"E, 13 Mar 1999, J. Tarnawski & S. Lassau (KS69905) (all AMS). 3♀, Clyde Mt., 3 Mar 1968, J. Balderson. 1♂, 3♀, Clyde Mt., 3 Mar 1970, S. Curtis. 7♂, 4♀, Clyde Mt., 14 Apr 1970, E.F. Riek. 2♂, 1♀, Clyde Mt., 15 Jul 1973, R.J. Kohout. 3♂, 2♀, Clyde Mt., 35°33'S 149°57'E, 15 May 1984, R.B. Halliday & M.S. Harvey. 2♂, 2♀, Clyde Mt., 4 Sep 1982, L.Hill. 2♂, 2♀, 2 km N of Monga, 18 Sep 1983, M.S. Harvey (all ANIC).

**Diagnosis.** Male palp (Figs 17a–b) with low blunt tipped TA. MA with elongate proximal projection, curving prolaterally with blunt rounded tip and with short narrow prolateral projection. Embolus with bluntly pointed tip and sometimes with expanded section near base. Palpal patella with one dorsal spine, palpal tibia with one dorsal and one prolateral stout spine. Female epigynum (Figs 17c–d) with pronounced lateral teeth. Tarsal organ rod like, situated proximally to trichobothria.

**Description.** *Male.* Measurements: BL 6.25, CL 3.40, CW 2.50, PLE 0.35, PME 0.20 (AMS KS31749). *Female.* Measurements: BL 6.25, CL 3.20, CW 2.40, PLE 0.35, PME 0.20 (AMS KS68199). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name is in honour of Dr M.R. Gray for his contributions to Australian arachnology.

**Distribution.** Known from south eastern New South Wales (Fig. 27b).

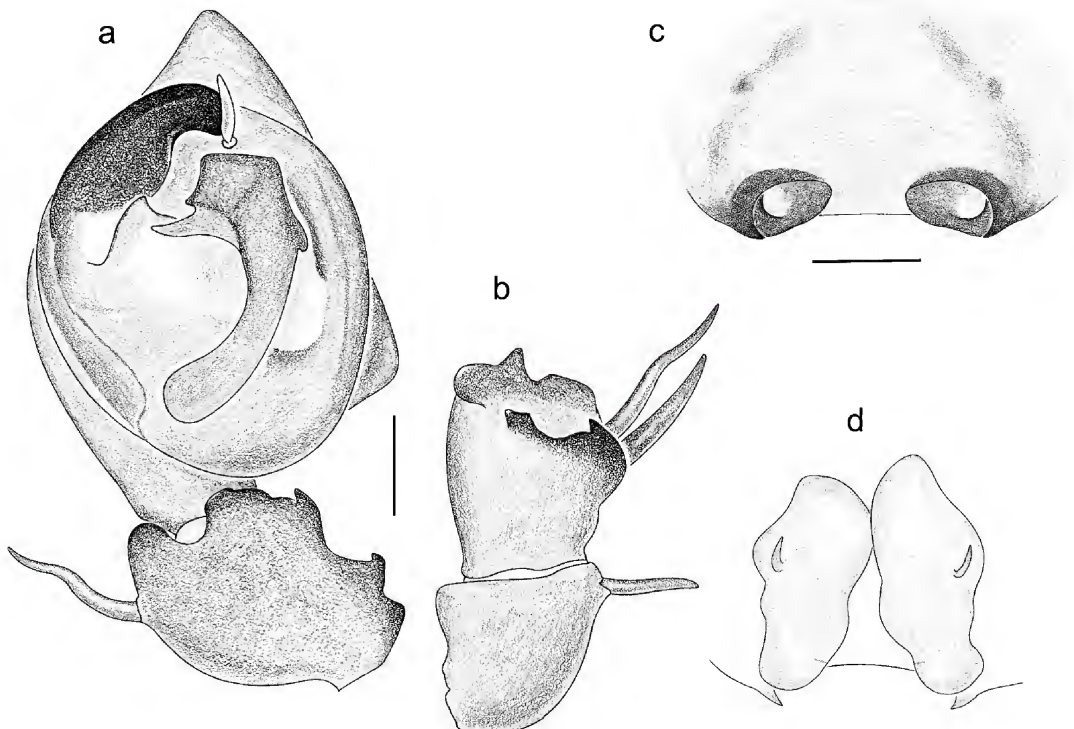


Fig. 17. *Storenosoma grayi*. (a–b) male palp (KS31749): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia (KS69899): (c) epigynum, ventral; (d) internal. Scale lines 0.25 mm.

**Remarks.** This species is known from the type locality, near Gerringong, south to the forests west of Moruya. Males from the southern end of the range have a less prominent TA and the proximal projection of the MA is narrower and more curved.

***Storenosoma grossum* n.sp.**

Figs 18a–d, 27c

**Type material.** HOLOTYPE ♂, Beech Forest, 38°38'S 143°34'E, 7 Apr 1973, MRG (AMS KS55348). PARATYPES 1 ♂, Delley's Dell, Grampians Ranges, 37°08'S 142°26'E, 26 Mar 1974, MRG (AMS KS4578). 3 ♀, Otway Ranges, Young Creek Rd, 0.4 km NW of Triplet Falls, 38°40'S 143°29'E, 14 Jun–29 Aug 1995, GAM, (NMV K4015). 2 ♀, Otway Ranges, Maits Rest, 10 km W of Apollo Bay, 38°45'S 143°34'E, 22 Feb 1992, GAM, (NMV K40009).

**Other material examined.** VICTORIA: 1 ♂, Macedon, Hogg Collection (1924.3.1.1425) (BMNH). 1 ♀, Delley's Dell, Silverband Rd, Grampians Range, 22 Mar 1974, MRG, (KS105859). 1 ♀, 14 km S of Halls Gap, Lower Silverband Rd, 37°08'S 142°31'E, 24 Mar 1974, MRG (KS105853) (both AMS). 2 ♂, Otway Ranges, Phillips Track, 0.5 km N of Triplet Falls, 38°40'S 143°29'E, 30 Oct 1991, GAM, (K 4011). 2 ♂, same data except 30 Oct–6 Nov 1991 (K 4012). 1 ♀, same data (K 3995). 1 ♂, same data except 6–13 Nov 1991 (K 4013). 1 ♂, same data except, 6 Sep–15 Nov 1994, (K 4014). 1 ♀, same data (K 3996). 1 ♀, same data except 31 Jan–11 Apr 1995 (K 3997). 1 ♀, same data except 14 Jun–29 Aug 1995 (K 3998). 1 ♀, same data (K 4005). 1 ♂, Otway Ranges, Young Creek Rd, 0.4 km NW of Triplet Falls, 38°40'S 143°29'E, 14 Jun–29 Aug 1995, GAM, (K 4015). 1 ♀, same data except 31 Jan 1994 (K 4000). 1 ♀, 6 Sep–15 Nov 1994 (K 3999). 3 ♂, Otway Ranges, Young Creek Rd, 0.2 km NE of Ciancio Creek crossing, 38°42'S 143°29'E, 6 Sep–15 Nov 1994, GAM, (K 4020). 1 ♀, same data (K 4003). 2 ♂, same data (K 4016). 1 ♀, same data (K 4002). 2 ♂, same data

except 15 Nov–31 Jan 1995, (K 4018). 1 ♀, same data (K 4004). 1 ♂, same data (K 4017). 1 ♂, same data except 14 Jun–29 Aug 1995 (K 4019). 1 ♀, same data (K 4006). 1 ♂, Otway Ranges, Aire Crossing Track, 0.5 km N of Aire River crossing, 38°42'S 143°29'E, 15 Nov 1994–31 Jan 1995, GAM, (K 4021). 2 ♂, same data (K 4022). 1 ♀, same data except 11 Apr–14 Jun 1995 (K 4008). 1 ♂, same data except 14 Jun–29 Aug 1995 (K 4007). 1 ♂, Otway Ranges, Maits Rest, 10 km W of Apollo Bay, 38°45'S 143°34'E, 4–10 Dec 1991, GAM, (K 4023). 1 ♂, same data except 6–13 Nov 1991 (K 4024). 2 ♀, same data except 22 Oct 1991 (K 4010). (all NMV). 1 ♀, Mt Sabine, Otway Ranges, 38°38'S 143°43'E, 585 m, 6 Nov 1997, GBM (S 46471) (QM).

**Diagnosis.** Male palp (Figs 18a–b) with small blunt tipped TA. MA with short proximal pointed projection, directed prolaterally and with similar but broader distal projection. Embolus simple and relatively narrow, with pointed tip. Palpal patella with one dorsal spine, palpal tibia with one slender dorsal spine. Female epigynum (Figs 18c–d) with lateral teeth located ventral to sclerotized gonopore openings. Tarsal organ capsulate, situated distally of trichobothria.

**Description.** *Male.* Measurements: BL 9.90, CL 5.10, CW 3.75, PLE 0.38, PME 0.26 (AMS KS55348). *Female.* Measurements: BL 10.60, CL 5.10, CW 3.85, PLE 0.40, PME 0.26, (NMV K4009). For morphological description see species diagnosis and generic description.

**Etymology.** Specific epithet refers to the relatively large size of this species.

**Distribution.** Known only from south western Victoria (Fig. 27c).

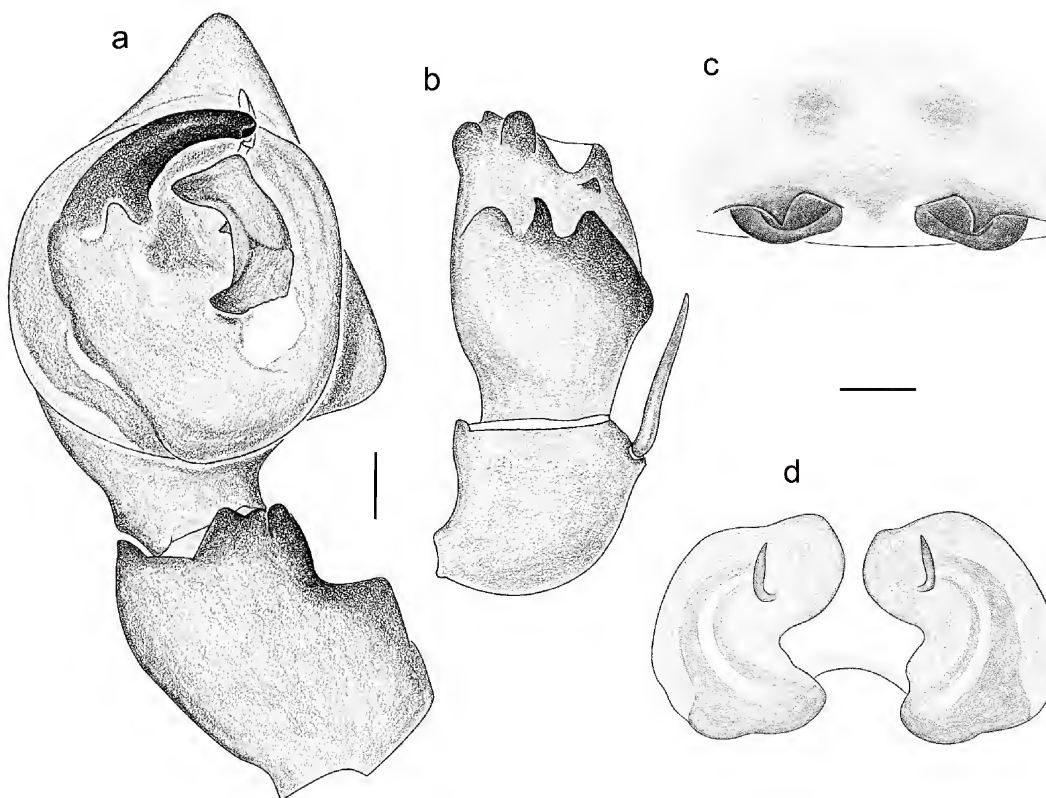


Fig. 18. *Storenosoma grossum*. (a–b) male palp (K4022): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia: (c) epigynum, ventral (K4001); (d) internal (K4010). Scale lines 0.25 mm.

*Storenosoma hoggi* (Roewer)

Figs 1c, 2a–d, 3a–e, 5a–f, 7c,i, 19a–d, 27a

*Storenosoma lycosoides* Hogg, 1900: 95, pl. 14, fig. 3.*Storena hoggi* Roewer, 1942: 362 (replacement name for *S. lycosoides*, believed preoccupied in *Storena* by Nicolet, 1849).*Storenosoma lycosoides*.—Davies, 1986: 240, figs 13–15 (transferred from *Storena*, using name of unavailable secondary homonym replaced before 1961).*Storenosoma hoggi*.—this combination listed online (*World Spider Catalog* version 11.5, Platnick, 2011).

**Type material examined.** LECTOTYPE ♀, Macedon, Victoria, 1907.2.24.34–37 (part), (BMNH). PARALECTOTYPES 1♂, 2♀, Macedon, Victoria, 1907.2.24.34 (part) (BMNH).

**Other material examined.** NEW SOUTH WALES 1♀, Badja SF Fire Rd, Badja State Forest, 36°10'51"S 149°29'45"E, 13 Mar 1999, L. Wilkie *et al.* (KS69836). 1♂, 5 km E of Bega, Mimosa Rocks NP, Dr George Mt Rd, 36°39'42"S 149°54'25"E, 25 Oct 2006, C. Car (KS105460). 1♂, 15 km N of Bega, Biamanga NP, Murbulla Creek Rd, 36°34'15"S 149°51'35"E, 25 Oct 2006, C. Car (KS105569). 1♂, same data except 15 Jun 2006, (KS105769). 1♂, Bondi State Forest, S of Bombala, Woodlot 1, 37°08'S 149°09'E, 25 Oct 1980, G. Gowing (KS11150). 1♀, same data (KS10996). 1♂, same data (KS11012). 1♂, same data (KS11030). 2♂, same data (KS11054). 1♂, 1♀, same data (KS11072). 3♂, same data (KS11085). 3♂, same data (KS11089). 5♂, 1♀, same data (KS11097). 1♂, same data (KS11108). 3♂, same data (KS11101). 1♂, same data (KS11122). 7♂, same data (KS11118). 1♂, same data except 15 Oct 1980 (KS11202). 1♀, same data (KS11301). 3♂, same data (KS11286). 1♀, same data (KS11226). 5♂, 1♀, same data (KS11236). 2♂, 2♀, same data (KS11247). 1♂, 1♀, same data (KS11254). 4♂, 3♀, same data (KS11267). 1♂, same data (KS11296). 7♂, same data (KS11313). 2♂, 2♀, same data (KS11329). 1♂, same data except 14 Nov 1980 (KS11542). 3♂, same data (KS11554). 1♀, same data (KS11637). 1♀, same data (KS11657). 1♂, same data (KS11723). 2♂, 1♀, same data (KS11937). 2♂, same data (KS11946). 5♂, 1♀, same data (KS11955). 2♂, same data (KS11965). 2♂, 1♀, same data (KS11972). 2♂, 3♀, same data

(KS11987). 1♂, 1♀, same data except 6 May 1980 (KS12210). 1♀, same data except 1 Jul 1981 (KS11454). 1♀, same data (KS11503). 3♂, same data except 4 Jul 1980 (KS45439). 1♂, same data (KS69830). 1♂, same data (KS69825). 1♀, same data except 27 Sep 1980 (KS69828). 1♂, same data (KS55350). 1♂, same data except 3 Aug 1980 (KS69829). 2♂, same data (KS69832). 1♂, same data (KS69824). 1♂, same data (KS69826). 1♀, same data except 26 Aug 1980 (KS69831). 1♂, same data (KS69833). 1♂, same data (KS69834). 1♂, same data except woodlot 2, 37°07'S 149°09'E, 4 Jul 1980 (KS69835). 1♂, same data (KS69723). 1♂, same data (KS69827). 1♂, same data (KS69721). 3♂, same data (KS69722). 4♂, same data (KS69712). 3♂2♀, same data except 27 Aug 1980 (KS69070). 1♂, same data (KS69118). 1♀, same data (KS69082). 2♂, same data (KS69074). 1♂1♀, same data (KS69102). 3♂1♀, same data (KS69111). 3♂1♀, same data (KS69077). 2♂3♀, same data (KS69089). 1♀, same data except 28 Nov 1980 (KS69174). 1 m, same data except 5 May 1980 (KS69195). 1♀, same data except 3 Feb 1980 (KS69709). 1♀, Dampier Mt. Fire Trail, Deua National Park, 35°58'44"S 149°41'23"E, 11 Mar 1999, J. Tarnawski & S. Lassau (KS69837). 1♀, 1.5 km S of Kiah, 37°09'S 149°51'E, 14 Apr 1978, MRG (KS45577). 2♂, 32 km E of Cooma, Wadbilliga NP, Tuross Falls, 2.8 km from Peter Rd turnoff, 36°11'58"S 149°30'12"E, 24 Oct 2006, C. Car (KS105493). 2♂, 15 km SE of Countegany, Two River Plain, Wadbilliga Trail NP, 36°17'50"S 149°32'32"E, 24 Oct 2006, C. Car (KS105590). 1♂, Kosciuszko NP, near Yarrangobilly Caves, 35°40'26"S 148°20'08"E, 16 Jun 2006, C. Car (KS105550). 2♂, 1♀, same data except 23 Oct 2006 (KS105581). 1♂, 10 km SE of Nimmitabel, Glen Bog SF, 36°36'46"S 149°22'07"E, 24 Oct 2006, C. Car (KS105517). 1♂, 9 km SE of Talbingo, Kosciuszko NP, Black Perry Rest Place, 35°36'01"S 148°22'18"E, 23 Oct 2006, C. Car (KS105529). 1♂, same data except 13 Jun 2006 (KS105666). 1♂, Two River Plain, Wadbilliga NP, Wadbilliga Trail, 36°17'50"S 149°32'32"E, C. Car (KS105537). 1♂, Yarrangobilly Caves, 35°40'S 148°30'E, G. Hunt & M. Zabka (KS44792) (all AMS). 1♀, Brown Mt, near Nimmitabel, Rutherford Ck., 26 May 1970, W.T. & R. Bartell. 1♀, 8.8 km ESE of Captains Flat, 10 Jan 1970, R.W. Taylor. 2♂3♀, 4 km E of Mt Wog Wog, 17 km SE of Bombala, 37°04'30"S 149°28'00"E, Jul 1986, C.R. Margules. 1♂2♀, same data except Oct 1986 (all ANIC). 2♀, NE of Khancoban, 36°12'S 148°08'E, 22 May 1988, D. Hirst (N19733–2) (SAM).

VICTORIA: 1♂, Blackwarri Scenic Rd., 0.5 km S of Blackwarri, 38°24'S 146°37'E, 11 Apr 1978, MRG (KS52412). 1♀, Waygara State Forest, 20 km N of Orbost, 37°42'S 148°19'E, 14 Apr 1978, MRG (KS45228). 1♂, 6.4 km E of Woodend on Mt Macedon Rd, 37°28'S 144°37'E, 28 Mar 1974, MRG (KS105861). 1♂, Mt Worth State Park, near Seaview, 38°16'S 145°59'E, 23

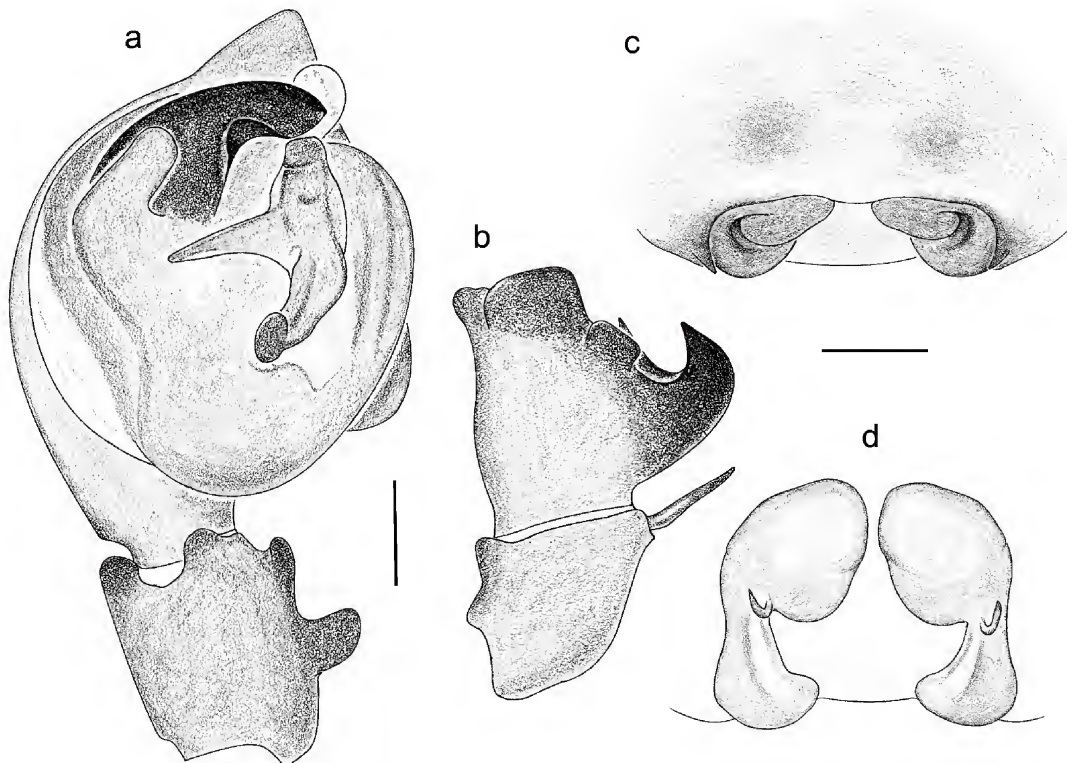


Fig. 19. *Storenosoma hoggi*. (a–b) male palp (K4041): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia (K4110): (c) epigynum, ventral; (d) internal. Scale lines 0.25 mm.

Mar 1978, MRG (KS52411) (all AMS). 1♂, Powers Lookout, 28 km NE of Mansfield, 17 May 1967, R. McInnes. 3♂, Wilsons Promontory National Park, 12–16 May 1978, S. & J. Peck (all ANIC). 1♂, Barringo, 5 km E of Macedon, 15 Apr 1972 (K 4100). 1♂, 1♀, [East Gippsland], Cobon South forest coupe 507.07, 37°25'S 148°56'E, upslope site, 6–11 May 1992, RC (K 4055). 2♂, same data except midslope site (K 4094). 4♀, same data (K 4059). 1♀, same data except upslope site, 6–14 Apr 1992 (K 4054). 1♀, same data (K 4056). 2♀, same data except gully site, 19–26 Feb 1992 (K 4057). 1♂, [East Gippsland], Cobon South forest coupe 513.04, 37°25'S 148°58'E, midslope site, 5–11 May 1992, RC (K 4061). 1♀, same data except gully site (K 4063). 1♀, same data except 5–12 Mar 1992 (K 4058). 1♂, [East Gippsland], Cobon South forest coupe 513.06, 37°25'S 148°58'E, midslope site, 29 Apr to 5 May 1992, RC (K 4062). 1♂, same data except 10–16 Dec 1991 (K 4064). 1♂, same data except upslope site, 5–11 May 1992 (K 4060). 1♂, [East Gippsland], Cobon North forest coupe 512.08, 37°22'S 148°56'E, upslope site, 5–11 May 1992, RC (K 4050). 1♂, 1♀, same data except 15–21 Jan 1992 (K 4051). 1♂, 1♀, same data except 12–20 Dec 1991 (K 4053). 1♀, same data except gully site (K 4049). 1♂, same data except 5–11 May 1992 (K 4052). 1♀, same data (K 4045). 1♀, same data except, midslope site (K 4046). 1♀, same data except 6–10 Apr 1992 (K 4048). 1♀, same data except upslope site (K 4110). 1♂, [East Gippsland], Cobon North forest coupe 513.03, 37°23'S 148°56'E, midslope site, 16–22 Jan 1992, RC (K 4044). 1♀, same data except gully site (K 4047). 1♀, [East Gippsland], Sardine forest coupe 513.02, 37°24'S 148°31'E, midslope site, 2–9 Apr 1992, RC (K 4071). 2♀, same data except 23–30 Jan 1992 (K 4073). 6♀, same data except upslope site (K 4075). 1♂, [East Gippsland], Sardine forest coupe 513.04, 37°25'S 148°31'E, midslope site, 4–10 May 1992, RC (K 4080). 1♀, same data (K 4069). 2♂, same data except upslope site (K 4091). 1♀, same data (K 4065). 1♀, same data (K 4070). 1♀, same data except midslope site, 9–15 Apr 1992 (K 4068). 1♀, same data except upslope site, 2–9 Apr 1992 (K 4072). 6♂, [East Gippsland], Sardine forest coupe 513.06, 37°24'S 148°31'E, gully site, 10–15 May 1992, RC (K 4079). 1♀, same data (K 4074). 2♀, same data except midslope site (K 4066). 2♂, same data except 31 May to 7 Jun 1992 (K 4078). 1♂, 1♀, same data except upslope site (K 4077). 6♀, same data except midslope site, 24–30 Jan 1992 (K 4067). 6♀, same data except upslope site (K 4076). 1♂, [East Gippsland], Rich-Murrungowar forest coupe 509.08, 37°34'S 148°39'E, midslope site, 7–13 May 1992, RC (K 4085). 1♂, [East Gippsland], Rich-Murrungowar forest coupe 509.06, 37°34'S 148°49'E, midslope site, 28 Oct to 5 Nov 1991, RC (K 4089). 1♀, same data except upslope site, 7–13 May 1992 (K 4084). 1♂, [East Gippsland], Rich-Murrungowar forest coupe 510.07, 37°34'S 148°38'E, midslope site, 24–29 Oct 1991, RC (K 4090). 2♂, same data except upslope site, 27 Oct to 4 Nov 1991 (K 4093). 1♂, [East Gippsland], Rich-Murrungowar forest coupe 510.08, 37°34'S 148°38'E, gully site, 26 Oct to 3 Nov 1991, RC (K 4092). 1♂, same data except midslope site (K 4078). 1♂, same data except 7–13 May 1992 (K 4088). 1♂, 1♀, same data except gully site (K 4095). 1♂, [East Gippsland], Rich-Murrungowar forest coupe 515.05, 37°34'S 148°38'E, midslope site, 25 Oct to 4 Nov 1991, RC (K 4086). 1♀, same data except upslope site, 7–13 May 1992 (K 4081). 1♀, same data except midslope site (K 4083). 1♀, [East Gippsland], Rich-Murrungowar forest coupe 515.07, 37°34'S 148°38'E, gully site, 29 Oct to 6 Nov 1991, RC (K 4082). 1♀, Mount Hotham, Jan 1947, RJM (K 4099). 11♂, DCE Upper Yarra site 1, 9.2 km NW of Toorongo, 37°44'S 146°02'E, 14–24 Nov 1988, L. Lumsden (K 4040). 6♂, DCE Upper Yarra site 6, 11 km NE of McMahons Creek, 37°39'S 145°56'E, 14–24 Nov 1988, L. Lumsden (K 4041). 5♂, DCE Upper Yarra site 8, 11.4 km ENE of McMahons Creek, 37°41'S 145°57'E, 14–24 Nov 1988, L. Lumsden (K 4042). 1♂, DCE Upper Yarra site 9, 9.6 km E of McMahons Creek, 37°41'S 145°56'E, 14–24 Nov 1988, L. Lumsden (K 4043). 1♂, Strzelecki Ranges, Jeeralang West Rd, 0.1 km N of Binns Hill Junction, 38°26'30"S 146°29'E, 7 May to 16 Jul 1996, GAM (K 4096). 2♀, same data except 5 Mar–7 May 1996 (K 4097). 1♀, Suggan Buggan, upper Snowy area (K 4098). (all NMV). 1♂, Erskine Falls, [near] Lorne, [38°30'S 143°55'E], 17 Jun 1987, RR (S 13100). 1♀, same data (S 13103). 1♀, 20 km N of Cann River, [37°24'S 149°09'E], 17 Jun 1987, RR (S 13098) (all QM). 1♂, Churchill, 38°19'S 146°26'E, 23 May 1993, R.de Souza-Daw (N197334). 5♂, 4♀, Holey Plains, 38°15'S 146°53'E, 9 Jun 1996, R. de Souza-Daw (N1997847–55). 2♀, Morwell National Park, 38°22'S 146°24'E, 20 Jan 1995, R.de Souza-Daw (N197337–8). 1♂, same data except 20 Nov 1994 (N197335) (all SAM). 1♀, S of Mallacoota Aerodrome, 21 Oct 1990, D. Black (95/1185) (WAM).

**Diagnosis.** Male palp (Figs 2a–d, 19a–b) with pronounced blunt tipped TA. MA with short proximal projection curving ventrally with blunt rounded tip and with elongate narrow prolateral projection. Embolus with bluntly pointed tip, medial constriction and expanded section near base (Figs

2a,b). Palpal patella with one dorsal spine, palpal tibia with one slender dorsal spine. Female epigynum (Figs 19c–d) with lateral teeth. Tarsal organ capsulate (Fig. 7i), situated between trichobothria 1 and 2.

**Description.** *Male.* Measurements: BL 6.62, CL 3.32, CW 2.36, PLE 0.30, PME 0.20 (NMV K4100). Leg spination (only surfaces bearing spines listed, left legs of NMV K4100): femur: I D 0-2-2, P 0-0-2; II D 1-3-1, P 0-0-1; III D 1-3-3; IV D 1-2-3; tibia: I P3-3-2, R 3-3-2; II D 1-0-0, P 3-2-3, R 3-3-2; III D 0-1-1, P 2-2-2, R 1-1-2; IV D 0-1-1, P 2-2-1, R 1-1-2; metatarsus: I P 3-3-2, R 1-2-1; II P 3-3-2, V 0-0-1, R 2-2-2; III D 1-2-0, P 2-2-2, V 2-0-0, R 1-2-2; IV D 1-1-0, P 1-1-2, V 2-2-1, R 1-1-1.

*Female.* Measurements: BL 8.80, CL 4.00, CW 3.00, PLE 0.37, PME 0.25 (NMV K4095).

*Spinnerets* (Figs 5a–f). Spigots (female, ANIC, NSW, 8.8 km ESE of Captains Flat): ALS: 2 MAP spigots; c.12 piriform spigots: PMS: 1 MAP spigot; 3 CY spigots; 3 aciniform spigots: PLS: 2 CY spigots; 5 aciniform spigots. For morphological description see species diagnosis and generic description.

**Distribution.** Known from eastern Victoria and south eastern New South Wales (Fig. 27a)

**Remarks.** The measurements given here are not of the type specimens, those are given by Davies (1986).

### *Storenosoma picadilly* n.sp.

Figs 20a–b, 27c

**Type material.** HOLOTYPE ♂, ACT, Wombat Ck., 6 km NE of Picadilly Circus, 35°19'S 148°51'E, Jun 1985, Weir, Lawrence and Johnson (ANIC 42-001693). PARATYPES 5♂, same data. 1♂, 1♀, same data except Aug 1985. 1♂, same data except Jul 1985 (all ANIC).

**Other material examined.** AUSTRALIAN CAPITAL TERRITORY: 1♂, Blundells Ck., 3 km E of Picadilly Circus, 35°22'S 148°50'E, Jul 1985, Weir, Lawrence and Johnson. 1♂, same data except Sep 1985. 2♂, same data except Jun 1985. 2♂, Picadilly Circus, 35°22'S 148°48'E, Aug 1984, Lawrence, Weir and Johnson. 15♂, 1♀, Picadilly Circus, 35°22'S 148°48'E, Jun 1984, Lawrence, Weir and Johnson. 5♂, same data. 4♂, Wombat Ck., 6 km E of Picadilly Circus, 35°19'S 148°51'E, Jun 1984, Weir, Lawrence and Johnson (all ANIC).

NEW SOUTH WALES: 1♂, Newnes SF, Sunnyside Rd, 33°22'33"S 150°11'14"E, 15–30 Nov 2005, GAM *et al.* AMS KS93056.

**Diagnosis.** Male palp (Figs 20a–b) with TA consisting of two short, blunt tipped projections. MA with elongate proximal projection curving prolaterally and expanding to paddle shaped tip and with narrow, elongate prolateral projection. Embolus simple, broad at base with small basal expansion and narrow tip. Palpal patella with one dorsal spine, palpal tibia without spines. Female epigynum unknown. Tarsal organ capsulate, situated distally of trichobothria.

**Description.** *Male.* Measurements: BL 8.40, CL 4.20, CW 3.20, PLE 0.30, PME 0.20. *Female.* Measurements: BL 9.95, CL 4.20, CW 2.85, PLE 0.32, PME 0.24. For morphological description see species diagnosis and generic description.

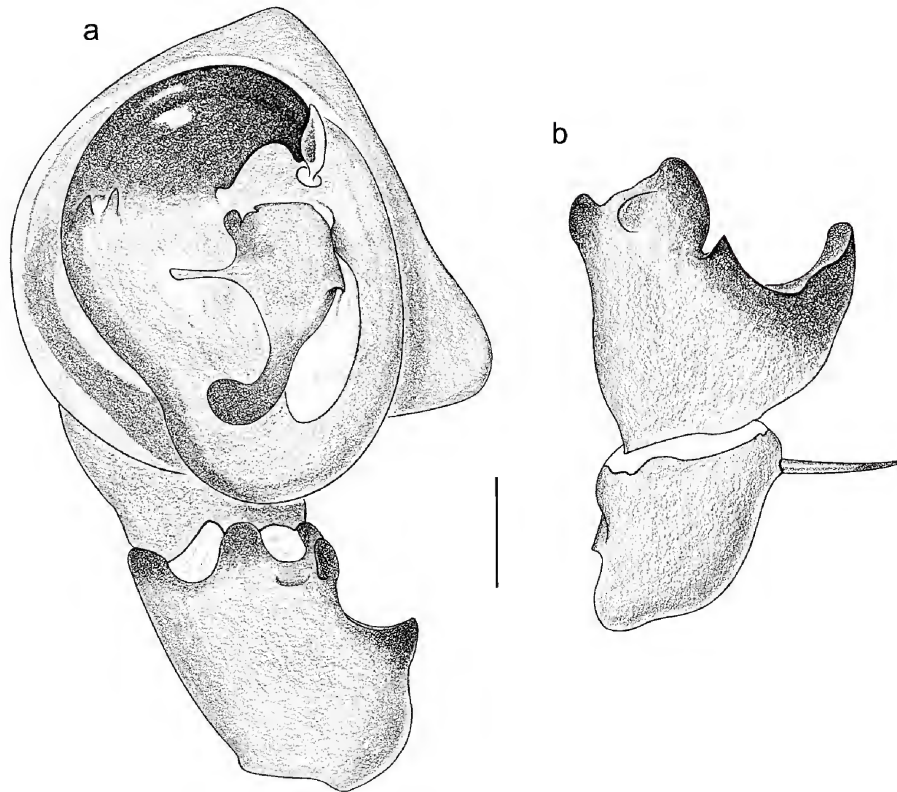


Fig. 20. *Storenosoma picadilly*. (a–b) male palp (ANIC, ACT, Wombat Ck., 6 km NE of Picadilly Circus): (a) ventral; (b) RTA, retrolateral. Scale line 0.25 mm.

**Etymology.** The specific name is a noun in apposition taken from the type locality.

**Distribution.** Known only from the vicinity of the type locality in the ACT and Newnes SF in NSW (Fig. 27c).

**Remarks.** The two female specimens attributed to this species have their epigyna plugged making the morphology unclear. For this reason the epigynum has not been illustrated. However, following the law of parsimony they have been attributed to *S. picadilly*, the only known sympatric species of similar size.

***Storenosoma smithae* n.sp.**

Figs 8b,f, 21a–d, 27b

**Type material.** HOLOTYPE ♂, Kosciuszko NP, Mt Clarke, 36°26'08"S 148°17'27"E, Feb 2005, K. Green (ANIC 42-001694) [New South Wales, Australia]. PARATYPE 1♂, same data (ANIC).

**Other material examined.** NEW SOUTH WALES: 1♂, 1♀, Kosciuszko NP, Mt Clarke, 36°26'21"S 148°17'47"E, Mar 2005, K. Green. 1♂, Kosciuszko NP, Mt Clarke, 36°26'01"S 148°17'17"E, Feb 2005, K. Green. 2♀, same data except Mar 2004 (all ANIC).

**Diagnosis.** Male palp (Figs 21a–b) with small, narrow blunt tipped TA. MA without distinct proximal projection and with slender prolateral projection. Embolus relatively narrow, with pointed tip. Palpal patella with single stout dorsal hair, palpal tibia without spines. Female epigynum (Figs 21c–d) with small lateral teeth. Tarsal organ capsulate (Fig. 8b,f), situated distally of trichobothria.

**Description. Male.** Measurements: BL 6.25, CL 3.44, CW 2.56, PLE 0.33, PME 0.23.

**Female.** Measurements: BL 7.25, CL 3.60, CW 2.44, PLE 0.30, PME 0.21, (ANIC, NSW, Mt Clarke, Mar 2005). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name is for Dr Helen Smith who drew my attention to these specimens.

**Distribution.** Known only from the Mt Clarke area in south eastern NSW (Fig. 27b).

***Storenosoma supernum* Davies**

Figs 22a–d, 27a

*Storenosoma superna* Davies, 1986: 242, figs 20–23, 36.

**Type material.** HOLOTYPE ♀, Mt Hobwee, Lamington National Park, south east Queensland, [28°15'S 153°12'E], 1140 m, mossy microphyll forest with *Nothofagus*, pitfall trap, 7 Apr 1976, R. Raven & V. Davies (QM S1378). PARATYPES: 1♂, same data as holotype (QM S1379). 1♀, 9juv, same data except litter (QM S1381).

**Other material.** QUEENSLAND: 5♂, 7♀, Mt Hobwee, Lamington National Park, south east Queensland, 28 Mar 1976, RR & V. Davies (QM S30794). 4♀, Mt Baldy, 1969–70, C. Plowman (QM S30783).

NEW SOUTH WALES: 1♂, Bar Mountain, via Kyogle, [28°28'S 153°08'E], 7 Feb–27 Apr 1978, GBM & SRM (QM S30758).

**Diagnosis.** Male palp (Figs 22a–b) without TA. MA with

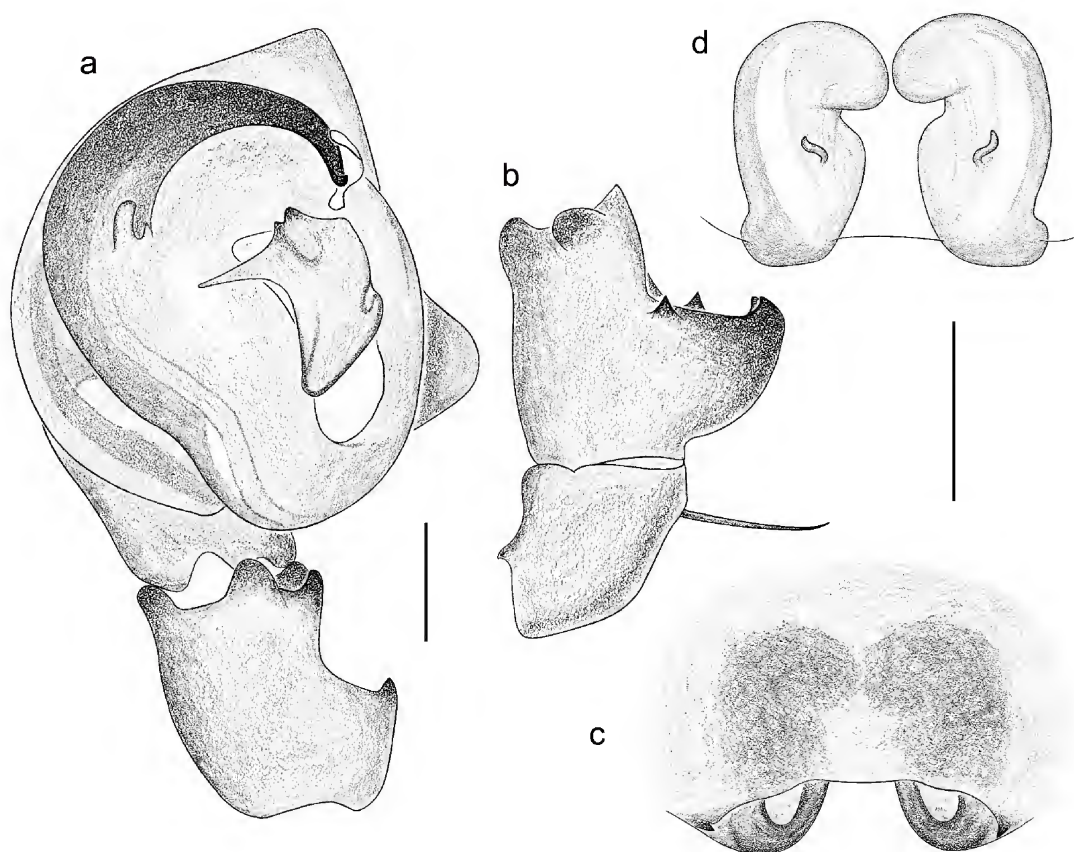


Fig. 21. *Storenosoma smithae*. (a–b) male palp (ANIC, NSW, Mt Clarke, Mar 2005): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia (ANIC, NSW, Mt Clarke, Mar 2004): (c) epigynum, ventral; (d) internal. Scale lines 0.25 mm.

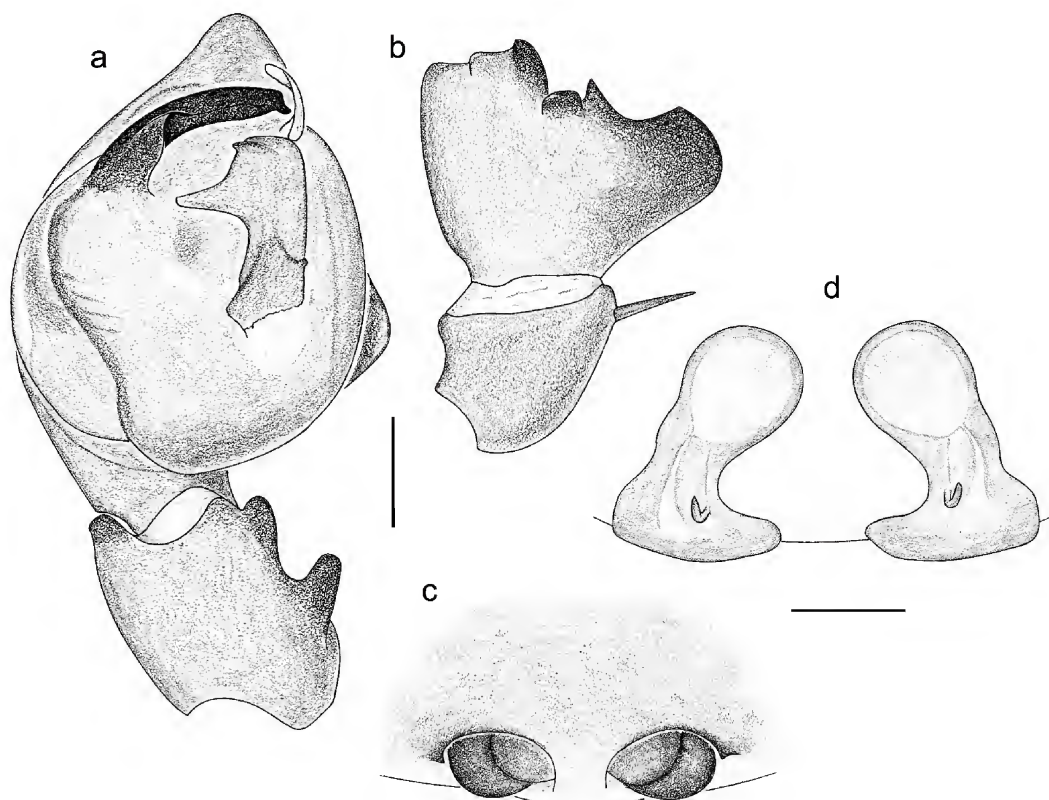


Fig. 22. *Storenosoma supernum*. (a–b) male palp (S30794): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia: (c) epigynum, ventral (S30788); (d) internal (S1381). Scale lines 0.25 mm.

slender prolateral projection but no other pronounced projections. Embolus with basal expansion and pointed tip. Palpal patella with one dorsal spine, palpal tibia with one stout dorsal hair. Female epigynum (Figs 22c–d) with very small lateral teeth. Tarsal organ capsulate, situated distally to trichobothria.

**Description.** *Male.* Measurements: BL 6.10, CL 3.10, CW 2.52, PLE 0.32, PME 0.21, (QM S 1379). *Female.* Measurements: BL 6.50, CL 3.40, CW 2.38, PLE 0.32, PME 0.21 (QM S 1378). For morphological description see species diagnosis and generic description.

**Distribution.** Known from south east Queensland and north east New South Wales (Fig 27a)

**Remarks.** The female holotype has the epigynum plugged.

### *Storenosoma tasmaniensis*, n.sp.

Figs 8c,g, 23a–b, 27a

**Type material.** HOLOTYPE ♂, Plateau Rd, Tasman Peninsula, 43°02'48"S 147°54'30"E, 25 Feb 1990, G. Cassis & I. Pegler (AMS KS69668). PARATYPES: 2♂, 2♀, same data as holotype (AMS KS69666). 1♀, Sandspit River, 42°42'S 147°51'E, 25 Feb 1990, G. Cassis (AMS KS69667).

**Other material examined.** TASMANIA: 1♀, Cascades, 6 Nov 1943 V.V. Hickman (S 46469); 1♀, Mt Wellington, 23 Jul 1943, V.V. Hickman (S 46467). 1♀, same data (S 46468) (all QM). 6♂, Warra, 43°05'S 146°41'E, site 663, 25 Sep 1997, D. Bashford. 4♂1♀, same data except site 338. 2♂1♀,

same data except site 147. 7♂2♀, same data except site 254. 2♂, same data except site 59. 2♂, same data except site 60. 1♂, same data except site 70, 7 Nov 1997. 2♂1♀, same data except site 226. 4♂1♀, same data except site 254. 4♂1♀, same data except site 147. 2♂, same data except site 338. 2♂, same data except site 59. 2♂, same data except site 60. 3♂, same data except site 663. (all QVM). 1♀, ca 6 km SE of Tombs Lake, 42°16'19"S 147°51'36"E, 1 Jun 1972, J.L. Hickman (KS107523). 1♂1♀, same data (KS107559). 1♂, same data (KS107561) (all AMS).

**Diagnosis.** Male palp (Figs 23a–b) with TA reduced to stout hump below base of embolus. MA compact with slender prolateral projection but no other pronounced projections. Embolus with basal expansion and pointed tip. Palpal patella with one dorsal spine, palpal tibia without spines. Tarsal organ capsulate (Fig. 8c,g), situated distally of trichobothria.

**Description.** *Male.* Measurements: BL 6.20, CL 3.20, CW 2.65, PLE 0.36, PME 0.26 (AMS KS69668). *Female.* Measurements: BL 8.35, CL 4.10, CW 2.85, PLE 0.36, PME 0.26, (AMS KS69666). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name refers to the type locality.

**Distribution.** Known only from southeastern Tasmania (Fig. 27a).

**Remarks.** The female specimens attributed to this species all have the epigynum plugged making the morphology unclear. For this reason it has not been illustrated. Since no other species of *Storenosoma* is known from Tasmania, it is presumed they are *S. tasmaniensis*.

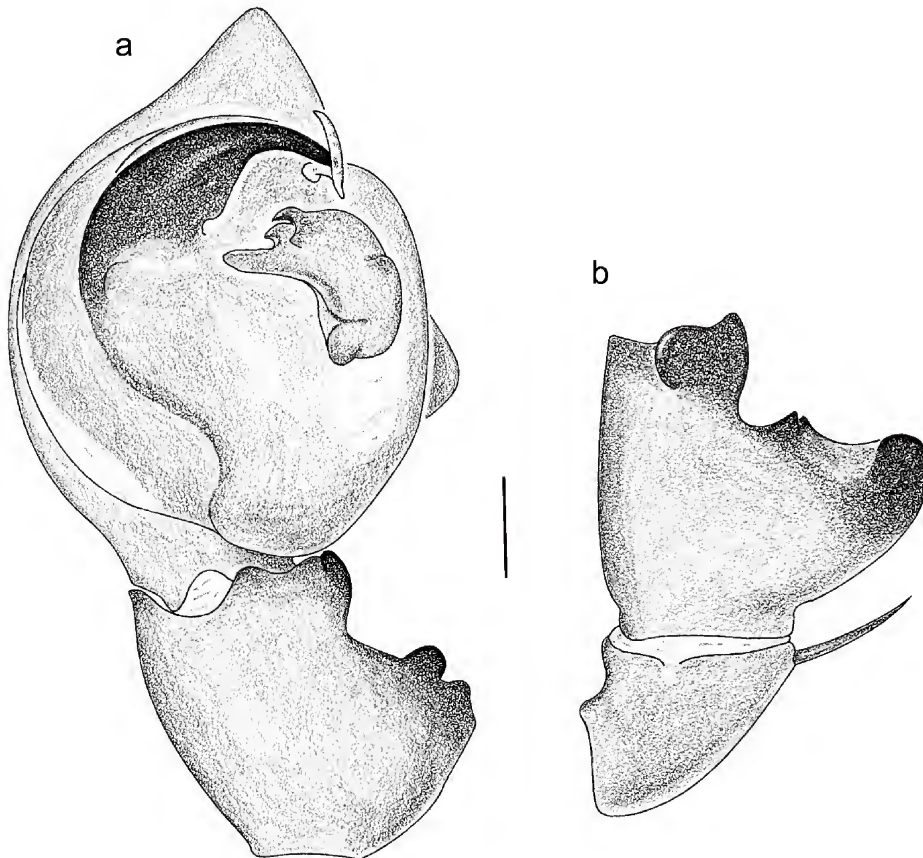


Fig. 23. *Storenosoma tasmaniensis*. (a–b) male palp (KS69666): (a) ventral; (b) RTA, retrolateral. Scale line 0.25 mm.

*Storenosoma terraneum* Davies

## Figs 24a–d, 27d

*Storenosoma terranea* Davies, 1986: 240, figs 16–19, 32–35, 40–41. Species of *Storenosoma* described by Davies were emended by Platnick, i.e. *alta*, *superna*, *terranea* became *altum*, *supernum* and *terraneum*. See *World Spider Catalog* (version 11.5, Platnick, 2011).

**Type material.** HOLOTYPE ♀, Queensland, Binna Burra, 860 m, [28°12'S 153°11'E], Lamington National Park, litter, 10 Jul 1977, R. Raven (QM S1372). PARATYPES: 1♀, same data as holotype except 22 Jun 1973 (QM S1376); 1♂, same data except 10 Jul 1977 (QM S1373).

**Other material.** AUSTRALIAN CAPITAL TERRITORY: 3♂, 1♀, Lees Creek, Brindabella Range, 35°27'S 148°46'E, 27 Oct 1919, C. Dickman (KS13558). 1♀, Tidbinbilla Nature Reserve, 35°28'S 148°52'E, 9 Mar 1978, P. Ormay (KS13844). 4♀, same data (KS13883). 1♀, same data (KS13835). 1♀, same data (KS13836) (all AMS). 2♂, Blundells Ck., 3 km E of Picadilly Circus, 35°22'S 148°50'E, Aug 1984, Weir, Lawrence & Johnson. 1♀, same data except Apr 1985. 1♀, same data except May 1985. 1♂, same data except Jun 1985. 1♂, same data except Jul 1985. 1♂, same data except Sep 1985. 1♂, same data except Oct 1985. 1♂, Wombat Ck., 6 km NE of Picadilly Circus, 35°19'S 148°51'E, Jun 1985, Weir, Lawrence & Johnson. 1♂, same data except Aug 1985 (all ANIC).

QUEENSLAND: 1♀, Lamington NP (O'Reilly's), 28°14'S 153°08'E, 22–27 Nov 1978, Lawrence & Weir (ANIC). 1♂, Mt Asplenium, 28°09'S 152°26'E, 20 Dec 1992–Mar 1993, GBM (S 27465). 40♂, 7♀, same data (S 46472). 1♀, Bald Mountain, via Emu Vale, [28°14'S 152°25'E], 18 Aug–17 Nov 1974, GBM & SRM (S 30765). 1♂, same data except 28 Dec 1974–30 Mar 1975, GBM (S 30796). 1♂, Bare Rock, 2 km N of Mt Cordeaux, 28°02'S 152°23'E, 31 Dec 1993–20 Feb 1994, 1100 m, GBM (S 46477). 1♂, Cunninghams Gap, [28°03'S 152°24'E], 17 Nov–28 Dec 1974, GBM & SRM (S 30763). 1♂, same data except 7 Oct–17 Nov 1974 (S 30761). 1♂, Mt Huntly, 28°08'S 152°26'E, 20 Dec 1992–Mar 1993, 1260 m, GBM (S 46474). 13♂, 2♀, same data (S 46473). 1♀, Mistake Mountains, via Goomburra, [27°55'S 152°20'E], 10 Oct 1976–9 Jan 1977, GBM & SRM (S 30740). 5♂, 1♀, same data (S 30738). 1♂, 1♀, same data (S 29760). 1♀, same data except 9 Jan–13 Feb 1977 (S 30784). 1♀, same data (S 29762). 6♂, 2♀, same data except 13 Feb–13 Oct 1977 (S 30782). 1♂, 1♀, same data (S 29761). 1♂, 1♀, Nothofagus Mountain, [28°17'S 152°37'E], 1981–1982, GBM (S 7015). 1♂, O'Reilly's Guest House, Lamington National Park, [28°14'S 153°08'E], 1 Oct 1980–18 Nov 1980 (S 16415). 2♀, same data except 24–26 Sep 1986, RR & J. Gallon (S 30756). 2♀, same data except 27 Dec 1981, Monteith *et al.* (S 30748). 1♀, same data except 11 Apr–12 Sep 1976, GBM & SRM (S 30791). 1♂, same data (S 30799). 1♂, Plateau south of The Head, via Killarney, 27 Dec 1974–31 Mar 1975, GBM & SRM (S 29763). 2♂, same data except 31 Mar–2 Aug 1975 (S 30766). 2♂, same data except 17 Nov–27 Dec 1974, GBM (S 30792). 3♂, 2♀, Mt Superbus, [28°14'S 152°28'E], 12 Mar–13 Apr 1989, RR & T. Churchill (S 16576). 1♂, 2♀, same data except 12 Mar–13 Apr 1990 (S 15913). 1♂, same data (S 15888). 1♀, same data except 9 Feb 1990, T. Churchill (S 16613). 1♀, same data except 12 Mar–13 Jun 1990, T. Churchill & RR (S 16565). 3♂, 1♀, base of Mt Superbus, [28°14'S 152°28'E], 24 Apr 1991, T. Churchill (S 25225). 2♂, Teviot Falls, via Boonah, [28°14'S 152°29'E], 8 May–15 Aug 1976, GBM & SRM (S 30780). 2♂, same data (S 30795). 2♂, same data except 5 Oct 1975–22 Feb 1976 (S 30769). 2♀, same data (S 30793). 1♂, same data except 15 Aug–3 Oct 1976 (S 30770) (all QM).

NEW SOUTH WALES: 4♂, Acacia Plateau and Wilsons Peak area, Koreelah State Forest, 28°16'S 152°27'E, 11 Dec 1988, Smith, Hines, Pugh & Webber (KS51391). 1♂, same data (KS51311). 1♂, same data (KS55344). 1♂, same data (KS69785). 5♂, 1♀, same data (KS51288). 1♂, same data (KS53288). 1♂, same data (KS52403). 3♂, same data (KS52402). 2♂, same data (KS49093). 4♂, same data (KS69823). 1♂, Barren Grounds Nature Reserve, 14 km NNW of Jamberoo, 34°40'28"S 150°42'45"E, 16–20 Jun 1999, L. Gibson (KS69773). 1♂, 1♀, same data except 21–25 Jun 1999 (KS69774). 1♂, same data except 11–15 Feb 1999 (KS69770). 1♂, same data except 11–15 Aug 1999 (KS69787). 1♂, same data except 16–20 Aug 1999 (KS69769). 3♂, same data except 1–5 Jun 1999 (KS69771). 1♂, same data except 11–15 Jun 1999 (KS69772). 2♂, same data except 16–20 Dec 1998 (KS69775). 1♂, same data except 6–10 Dec 1998 (KS63090). 1♂, same data except 11–15 Dec 1998 (KS69768). 2♂, 3♀, same data except 16–20 Dec 1999 (KS69786). 1♂, 3♀, Benandarah State Forest, 8 km N of Batemans Bay, 35°40'S 150°14'E, 19 Oct 1978, C. Horseman (KS2035). 1♂, 1♀, same data except 24 Aug 1978 (KS1743). 1♀, same data except 16 Dec 1978

(KS2272). 2♂, same data except 13 Jan 1979 (KS2476). 1♀, same data except 31 May 1979 (KS3124). 1♂, same data except 28 Jun 1979 (KS3362). 1♂, same data except 26 Jul 1979 (KS3867). 1♂, same data except 21 Sep 1979 (KS3924). 5♀, same data except 7 km N of Batemans Bay, 35°39'S 150°14'E (KS1502). 1♂, Beauray State Forest, Tooloom Scrub, 28°35'S 152°22'E, 12 Dec 1988, Smith, Hines, Pugh & Webber (KS50961). 1♂, same data (KS50960). 1♂, same data (KS51061). 3♂, same data (KS51013). 1♀, same data (KS51268). 1♀, same data (KS52404). 1♂, Beecroft, 33°45'S 151°04'E, 1 Oct 1999, J. Noble (KS69779). 1♂, Beecroft Peninsula, northern headland of Jervis Bay, 35°03'03"S 150°47'21"E, 21–25 Aug 1999, L. Gibson (KS69778). 1♂, same data except 1–5 Aug 1999 (KS69777). 1♂, Blue Mountains, 33°36'S 150°15'E, Feb 1932, K. Spence (KS16506). 1♂, Blue Mountains N.P., Binnowee Drive, 33°40'15"S 150°27'55"E, 15 Aug 1996, AMS KS53286. 1♀, Bondi State Forest, S of Bombala, 37°08'S 149°09'E, 15 Oct 1980, G. Gowing (KS11223). 1♂, 1♀, same data (KS11295). 1♀, same data (KS11287). 1♀, same data (KS11330). 1♂, same data (KS69896). 2♂, same data except 25 Oct 1980 (KS11071). 1♂, same data (KS11084). 1♂, same data (KS11096). 1♂, same data (KS11107). 1♀, same data (KS11121). 1♂, same data (KS11113). 1♂, 1♀, same data (KS69895). 1♂, same data except 14 Nov 1980 (KS11870). 1♂, same data (KS11920). 1♂, same data (KS11930). 1♂, same data (KS11954). 1♂, 1♀, same data (KS11964). 1♂, same data (KS11971). 1♂, same data (KS11986). 1♀, same data (KS12019). 1♂, same data except 6 May 1980 (KS12188). 1♂, same data except 3 Aug 1980 (KS55349). 1♂, same data (KS69821). 2♂, 1♀, Bondo State Forest, 35°39'S 148°15'E, 20 Dec 1980, (KS45446). 1♂, Booderee National Park, south headland of Jervis Bay, 35°08'49"S 150°45'05"E, 11–15 Aug 1999, L. Gibson (KS69776). 1♂, 1♀, Mt Boss State Forest, 31°12'S 152°24'E, Oct 1980, G. Webb (KS42826). 5♂, same data except (Stl Plateau) (KS42890). 1♂, same data except (Kota) (KS43500). 1♀, Mt Boss State Forest, North Plateau Rd at Plateau Beech Picnic Area, 31°10'S 152°19'E, 4 Feb–9 Apr 1993, MRG & GC (KS42544). 1♀, same data (KS42541). 1♀, same data (KS42542). 1♀, same data (KS42543). 2♀, Mt Boss State Forest, North Plateau Rd, 1.5 km from Plateau Beech Picnic Area, 31°10'S 152°19'E, 4 Feb–9 Apr 1993, MRG & GC (KS42545). 1♀, Mt Boss State Forest, Rimau Rd, 31°11'S 152°21'E, 4 Feb–9 Apr 1993, MRG & GC (KS42547). 1♀, Brown Mountain, west of Bemboka, 36°36'S 149°23'E, 16 Apr 1978, MRG (KS48993). 1♂, 4♀, Bulga State Forest, Pole Bridge Rd, 0.5 km E of Knodingbul Rd, 31°37'S 152°09'E, 4 Feb–9 Apr 1993, MRG & GC (KS40806). 1♀, Bulga State Forest, Bobbin Fire Trail, 0.1 km from Padman's Rd, 31°37'S 152°10'E, 4 Feb–9 Apr 1993, MRG & GC (KS40803). 1♂, Bungonia Caves area, near Information Centre, 34°50'S 150°04'E, Nov 1989, G. Hunt (KS22553). 1♂, Bungonia Caves, B1–B4 extension, 34°50'S 150°00'E, 14 Jul 1979, G. Smith (KS19061). 1♂, Bungonia, Hogans Hole B5, 34°50'S 150°04'E, 15 Jan 1977, D. Rothery (KS644). 5♀, Chichester State Forest, Karuah River Rd, 1.8 km N of ford on Karuah River, 32°05'S 151°43'E, Feb 1993, MRG & GC (KS41332). 3♀, same data except 2.3 km N of Karuah River (KS41374). 1♀, Chichester State Forest, Allyn River Forest Rd, 0.5 km S of Mt Allyn Rd, 32°09'S 151°28'E, 4 Feb–9 Apr 1993, MRG & GC (KS41367). 4♀, Chichester State Forest, Mt Allyn Rd, 2.3 km N of Shellbrook Forest Rd, 32°08'S 151°27'E, 4 Feb–9 Apr 1993, MRG & GC (KS41371). 1♀, same data (KS41372). 1♀, Chichester State Forest, Mt Allyn Rd, 0.3 km E of Shellbrook Forest Rd, 32°09'S 151°27'E, 4 Feb–9 Apr 1993, MRG & GC (KS41373). 2♀, same data except 0.8 km N of Shellbrook Forest Rd (KS41377). 1♂, Christophersons Mountain, 2 km SSW of Bostobrick, 30°17'45"S 152°37'04"E, 9–23 Nov 1999, MRG, GAM & H. Smith (KS69781). 1♂, 32 km E of Cooma, Wadbilliga NP, Tuross Falls, 2.8 km from Peter Rd turnoff, 36°11'58"S 149°30'12"E, 24 Oct 2006, C. Car (KS107212). 2♂, 15 km SE of Countegany, Two River Plain, Wadbilliga Trail NP, 36°17'50"S 149°32'32"E, 24 Oct 2006, C. Car (KS105591). 3♀, Dome Mountain, Richmond Range & Yabba SF, 28°28'S 152°43'E, 11 Dec 1988, Smith, Hines, Pugh & Webber (KS55347). 1♂, same data (KS69784). 2♂, 2♀, Enfield State Forest, Mummel Forest Rd, 7.6 km N of junction with Enfield Forest Rd, 31°17'S 151°51'E, 4 Feb–9 Apr 1993, MRG & GC (KS40812). 2♀, same data except 6.1 km N of junction with Enfield Rd (KS40815). 1♀, same data (KS69891). 1♂, 3♀, Enfield State Forest, Dodd's Fire Trail, 2 km from Enfield Rd on Scrubby Ck, 31°23'S 151°52'E, 4 Feb–9 Apr 1993, MRG & GC (KS40816). 1♀, Ewingar State Forest, Elkhorn Rd, 29°06'S 152°26'E, 4 Feb–9 Apr 1993 MRG & GC (KS42524). 1♀, Ewingar State Forest, Nogrigar Rd, 29°08'S 152°25'E, 4 Feb–9 Apr 1993 MRG & GC (KS69894). 1♂, Grill Cave B44–1, Bungonia, 34°50'S 150°00'E, 14 May 1993, E. Eberhard (KS37496). 1♂, Hazelbrook, Railway Parade, 33°43'55"S 150°27'00"E, 3 Oct 1996, AMS KS53285. 1♂, same data (KS52405). 2♀, Mt Hyland Nature Reserve, Obeloe Ck, 2 km SW on Obeloe Rd from Chaelundi Rd, 30°09'S 152°27'E, 4 Feb–9 Apr 1993, MRG & GC (KS35247). 1♂, Illawong, Sproule St., 36°00'S 148°40'E, R. Lowson (KS53287). 1♂, 1♀, Jamberoo Mountain, via Kiama, 34°40'S 150°43'E, 8 Nov 1987, G. Hunt (KS18424). 1♂, Jamberoo Mountain, 34°40'S 150°43'E, 20 Jun 1994, J.

Noble (KS53614). 1♂, same data except 20 Dec 1996 (KS53613). 4♂, Jenolan Caves Area, Southern Limestone Area, 33°49'S 150°02'E, 6 Jul 1989, G. Hunt (KS21669). 6♂, same data except 14 Aug 1989 (KS22525). 1♂, Jenolan Caves Area, Playing Fields, 33°49'S 150°02'E, 14 Aug 1989, G. Hunt (KS22520). 2♀, Kanangra-Boyd National Park, Boyd Plateau, near Jenolan Caves, 33°59'S 150°08'E, 25 Apr 1971, G. Hunt (KS30025). 2♂, same data except 8 Jun 1971 (KS1393). 1♂, 2♀, Kanangra-Boyd National Park, Mt. Edwards, 33°50'S 150°00'E, 15 May 1971, MG (KS1390). 2♂, Mt Keira Fauna Reserve, scout camp, 34°24'S 150°51'E, 19 Oct 1978, CH (KS2006). 2♂, same data except 16 Nov 1978 (KS2088). 1♂, same data (KS2087). 1♀, same data except 17 Feb 1978 (KS1463). 1♀, same data except 14 Mar 1978 (KS1458). 1♀, same data except 8 Apr 1978 (KS1537). 1♂, same data except 30 Apr 1978 (KS1403). 1♂, same data (KS1409). 1 m, same data except 30 May 1978 (KS1484). 1♂, 1♀, same data except 30 Jun 1978 (KS1585). 1♂, same data except 28 Jul 1978, MG (KS1643). 2♂, same data except 6 Dec 1978, CH (KS2172). 1♀, same data (KS2246). 2♂, same data (KS2185). 2♂, same data (KS2195). 3♂, 1♀, same data (KS2207). 4♂, 1♀, same data (KS2220). 1♂, same data (KS2221). 2♂, same data (KS2234). 2♂, same data (KS2235). 5♂, 1♀, same data (KS2247). 5♂, same data except 3 Jan 1979 (KS2365). 5♂, 1♀, same data (KS2380). 1♂, 1♀ same data (KS2381). 5♂, same data (KS2396). 7♂, 3♀, same data (KS2398). 1♂, 1♀, same data (KS2407). 4♂, same data (KS2408). 16♂, 2♀, same data (KS2419). 3♂, same data except 31 Jan 1979 (KS2516). 1♂, same data (KS2528). 4♂, same data (KS2535). 2♂, 1♀, same data (KS2538). 6♂, 1f, same data (KS2547). 3♂, 1♀, same data (KS2560). 7♂, same data (KS2572). 1♂, same data except 28 Mar 1979 (KS2842). 1♀, same data (KS2858). 4♂, same data except 31 May 1979 (KS3091). 1♀, Kerewong State Forest, near Lorne, site 108, 31°36'S 152°34'E, 15 Jul 1979, D. Milledge, (KS5406). 4♂, 2♀, same data (KS5428). 4♂, same data (KS5441). 3♂, 1♀, same data (KS5463). 10♂, 2♀, same data except 28 May 1978 (KS1554). 1 m, same data except 18 Oct 1978 (KS16113). 2♀, same data except 20 Nov 1978 (KS16137). 1♀, same data (KS16190). 4♂, 1♀, same data except site 111.2, 31°35'S 152°41'E, 29 Aug 1978 (KS1983). 10♂, Kioloa State Forest, Forest Drive, 16 km N of Batemans Bay, 35°36'S 150°16'E, 19 Oct 1978, CH (KS2017). 2♂, 1♀ same data except 16 Dec 1978 (KS2309). 1♀, same data except 13 Jan 1979 (KS2450). 7♂, 6♀, same data except 18 km N of Batemans Bay (KS2305). 7♂, 1f, Kioloa State Forest,

Forest Drive, 35°37'S 150°16'E, 16 Nov 1978, CH (KS2111). 1♀, same data except 3 Mar 1979 (KS2809). 3♂, same data (KS2112). 5♂, 1♀, same data except 28 Jun 1979 (KS3835). 4♂, same data except 23 Aug 1979 (KS4550). 5♂, 1♀, same data except 15 km N of Batemans Bay, 13 Jan 1979 (KS2463). 2♀, same data except 11 Feb 1979 (KS2588). 1♂, same data except 9 Apr 1979 (KS2906). 3♂, 1♀, same data except 31 May 1979 (KS3114). 3♂, 2♀, same data except 26 Jul 1979 (KS3859). 4♂, 1♀, same data except 21 Sep 1979 (KS3903). 1♂, same data except 17 Oct 1979 (KS5500). 2♂, same data (KS5545). 2♂, 2♀, same data except 14 km N of Batemans Bay, 21 Aug 1978 (KS1948). 8♂, 1♀, same data except 8 km N of Batemans Bay, 3 May 1979 (KS3009). 3♂, 2♀, Kioloa State Forest, rest area, 35°36'S 150°15'E, 16 Nov 1978, CH (KS2099). 2♀, same data except 8 Mar 1979 (KS2803). 1♀, same data except 9 Apr 1979 (KS2901). 1♂, same data except 31 Apr 1979 (KS3107). 2♂, same data except 28 Aug 1978 (KS1737). 1♂, Same data except 28 Jul 1978, MG (KS1649). 1♂, same data except 13 Jul 1978 (KS46065). 3♂, Koreelah State Forest, Acacia Plateau & Wilsons Peak area, 28°16'S 152°27'E, 11 Dec 1988, Smith *et al.* (KS44116). 1♂, 1♀, same data (KS44123). 1♂, same data (KS50400). 1♂, same data (KS43897). 1♀, Kurrawong, near Pittwater, 33°39'S 151°17'E, 13 Jun 1965, R. Mascord (KS1534). 1♀, Lorne State Forest, near Lorne, 31°35'S 152°57'E, 4 Nov 1979, D. Milledge (KS5655). 2♂, 3♀, Minnamurra Falls, 34°38'S 150°51'E, 11 Oct 1978, G. Wishart (KS29723). 1♀, Mountain Trail, 2.1 km S of junction with Kunungra Rd, 32°08'S 151°45'E, 4 Feb–9 Apr 1993, MG & GC (KS42526). 4♀, same data except 0.8 km S (KS42527). 2♀, Nadgee Nature Reserve, 37°27'S 149°56'E, 24 May 1978, G. Gowing (KS1598). 1♀, New England National Park & Styx River State Forest border, 3 km S of Point Lookout, 30°31'S 152°23'E, 4 Feb–9 Apr 1993, MRG & GC (KS35283). 1♂, 10 km SE of Nimmitabel, Glen Bog SF, 36°36'46"S 149°22'07"E, 24 Oct 2006, C. Car (KS107211). 1♂, same data except 14 Jun 2006 (KS105549). 1♀, southwest of Nowra, 34°53'S 150°36'E, 11 Mar 1990, G. Hunt (KS22711). 7♂3♀, Royal National Park, Lady Wakehurst Drive, beside Hacking River, 34°09'47"S 151°00'55"E, 6–20 Dec 1999, MRG, GAM & H. Smith (KS63220). 1♂, Royal National Park, Upper Causeway, 34°08'S 151°04'E, 25 Aug 1988, M. Zabka *et al.* (KS27936). 1♀, same data except 23 Mar 1990, CH & J. Thompson (KS23658). 1♂, "Scalloway", Willowvale, near Gerrington, 34°45'S 150°50'E, Nov 1979, G. Wishart (KS4311). 3♂, 1♀,

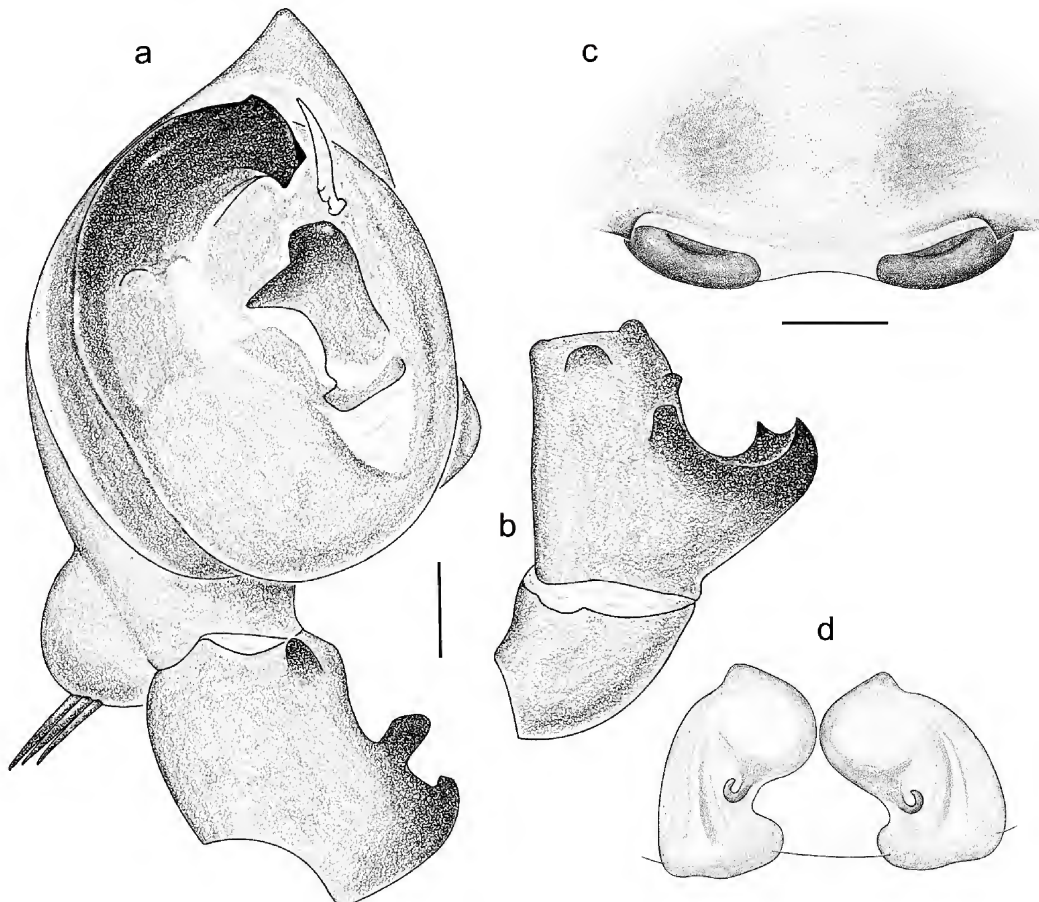


Fig. 24. *Storenosoma terraneum*. (a–b) male palp (S7015): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia: (c) epigynum, ventral (S15913); (d) internal (KS42542). Scale lines 0.25 mm.

same data except 3 May 1986 (KS17401). 1♂, same data except May 1987 (KS30238). 1♀, same data except 26 Jul 1986 (KS17402). 1♀, same data except 30 Oct 1986 (KS17427). 1♂, Tooloom Scrub Forest Reserve, Legume Rd, nr Urbenville, 10–11 Jan 1988, D.J. Bickel (KS69788). 3♂, "Tuglio", 48 km N of Singleton, 32°15'S 151°20'E, Jan 1977, MRG (KS44938). 1♀, Tweed Range, 28°25'S 153°02'E, 16 Feb 1989, Smith, Hines, Pugh & Webber (KS51258). 1♂, same data (KS48909). 1♂, Wahroonga Fox Valley Reserve, 33°42'S 151°08'E, 17 Nov 1979, B. Henke (KS5609). 1♀, Mt Werong, via Oberon, 34°05'S 149°56'E, 3 Jul 1972, G. Hunt (KS44940). 1♂, Mt Wilson, Blue Mountains, 33°30'S 150°23'E, 14 Apr 1959, D.F. McMichael (KS52401). 1♂, Mt Wilson, Cathedral of Ferns area, 33°30'S 150°23'E, 1 Nov 1978, MRG & CH (KS2045). 1♂, 1♀, same data except 28 Nov 1978, CH (KS2141). 1♀, same data except 21 Jan 1979 (KS2634). 1♂, same data except 26 Dec 1978 (KS2351). 1♂, same data except 18 Apr 1979 (KS2936). 1♀, same data except 16 May 1979 (3028). 1♂, same data except 17 Jun 1979 (KS3818). 1♂, same data except 20 Apr 1978 (KS1470). 1♂, same data except 20 May 1978 (KS1475). 2♂, same data except 16 Jun 1978 (KS1542). 2♂, same data except 7 Sep 1978 (KS1760). 1♀, same data except 21 Sep 1978 (KS1960). 3♀, same data except Feb 1978 (KS1351). 19♂, 2♀, Mt Wilson, Waterfall Picnic Area, 33°30'S 150°23'E, 28 Nov 1978, CH (KS2153). 1♀, same data except 15 Nov 1978 (KS2056). 1♀, same data except 26 Dec 1978 (KS2335). 9♂, 1♀, same data (KS2337). 3♀, same data except 28 Mar 1979 (KS2823). 5♂, 2♀, same data except 18 Apr 1979. 5♂, same data except 16 May 1979 (KS3020). 7♂, same data except 17 Jun 1979 (KS3135). 2♂, same data except 17 Jul 1979 (KS3844). 3♂, same data except 29 Nov 1979 (KS4322). 4♂, same data except 4 Oct 1979 (KS5481). 1♀, same data except 3 Nov 1979 (KS5577). 1♂, Woodford, Ridge St., 33°43'50"S 150°28'40"E, 30 Sep 1996, AMS KS52406. 1♀, Woronora Dam Catchment, Fire Rd no.9, 34°11'53"S 150°54'32"E, 8–22 Dec 1999, MRG, GAM & H. Smith (KS63225). 2♂, 1♀, Woronora Dam Catchment, Fire Rd no.9, 34°11'53"S 150°54'32"E, 26 Oct–14 Nov 2000, GAM & H. Smith (KS69362). 2♂, 1♀, Yabbara Scrub, Yabbara State Forest, 28°38'S 152°30'E, 14 Dec 1988, Smith, Hines, Pugh & Webber (KS51286). 4♂, 3♀, same data (KS55346). 1♂, same data (KS49857). 1♂, same data (KS69780). 4♀, same data (KS45733). 1♀, same data (KS48754). 2♀, same data (KS49712). 2♀, same data (KS55345). 2♀, same data (KS69782). 1♂, 1♀, same data except 12 Dec 1988 (KS69822). 1♂, same data except 17–19 Nov 1989 (KS69783) (all AMS). 1♂1♀, Brown Mt, near Nimmitabel, Rutherford Ck., 26 May 1970, W.T. & R. Bartell. 1♂, Clyde Mt., 14 Apr 1970, E.F. Riek. 1♀, Clyde Mt., 35°33'S 149°57'E, 15 May 1984, R.B. Halliday & M.S. Harvey. 3♂1♀, 4 km E of Mt Wog Wog, 17 km SE of Bombala, 37°04'30"S 149°28'00"E, Jul 1986, C.R. Margules (all ANIC). 2♂, 5♀, Monga State Forest, 4 km from Monga, 30 km SW of Braidwood, 35°33'S 149°56'E, 8–20 Aug 1990, C. Griswold & T. Meikle (CAS). 1♂, 1♀, Barrington House, via Salisbury, 24–25 Jun 1987, RR & T. Churchill (S 13099). 1♂, Mt Clunie, [28°18'S 152°32'E], via Woodenbong, 8 Apr–15 Aug 1976, GBM & SRM (S 30797). 1♀, Gibraltar Range, 10 Nov 1980, RR (S 30744). 1♀, same data except GBM (S 30750). 1♂, same data except 30 Mar–10 Nov 1980 (S 30760). 1♂, 1♀, Lever's Flat, via Rathdowney, [28°20'S 152°52'E], 1 Nov 1975–14 Mar 1976, GBM & SRM (S 30788). 1♀, same data (S 30768). 1♀, same data except 22 May–8 Sep 1976 (S 30781) 3♂, same data (S 30785). 1♂, same data except 8 Sep–31 Oct 1976 (S 30786). 1♂, Tweed Lookout, Wiangaree, via Kyogle, [28°21'S 153°06'E], 16 Nov–27 Dec 1974, GBM & SRM (S 30767). 1♂, same data except 18 Aug–16 Nov 1974 (S 30762) (QM). 1♂, 1♀, Monga, [35°35'S 149°55'E], Oct 1984, W. Osbourne (95/1186-7) (WAM).

VICTORIA: 1♂, 1♀, Alfred National Park, 37°32'S 149°20'E, 14 Apr 1978, MRG (KS45234). 1♀, Blue Range Rd., between Thornton & Rubicon, 37°21'S 145°53'E, 9 Apr 1978, MRG (KS45569) 1♂, Glen Wills area, 36°50'S 147°30'E, 13 Apr 1978, MRG (KS45571) (all AMS). 1♂, [East Gippsland], Cobon South forest coupe 513.04, 37°25'S 148°58'E, upslope site, 10–17 Nov 1991, RC (K 4121). 1♂, same data except midslope site (K 4122). 2♂, same data except gully site RC (K 4123). 1♀, same data except 5–12 Mar 1992 (K 4120). 1♂, 1♀ [East Gippsland], Cobon North forest coupe 507.06, 37°23'S 148°56'E, midslope site, 29 Apr to 6 May 1992, RC (K 4115). 2♀, same data except upslope site, 17–25 Mar 1992 (K 4111). 1♀, same data (K 4114). 4♂, [East Gippsland], Cobon North forest coupe 512.08, 37°22'S 148°56'E, gully site, 5–11 May 1992, RC (K 4116). 1♂, same data except upslope site (K 4118). 2♂, same data except gully site, 12–20 Dec 1991, RC (K 4117). 1♂, [East Gippsland], Cobon North forest coupe 513.03, 37°23'S 148°56'E, gully site, 23–29 Apr 1992, RC (K 4119). 1♀, [East Gippsland], Sardine forest coupe 513.02, 37°24'S 148°31'E, gully site, 23–30 Jan 1992, RC (K 4124). 3♀, same data except upslope site (K 4125). 1♂, [East Gippsland], Sardine forest coupe 513.03, 37°24'S 148°31'E, gully site, 27 Apr to 4 May 1992, RC (K 4126). 1♂, [East Gippsland], Sardine forest coupe 513.06, 37°24'S 148°31'E, midslope site, 31 May to 7 Jun 1992, RC (K 4127). 1♂, same data except gully site, 10–15 May 1992, RC (K 4128). 1♀, same data (K 4112). 1♂, [East Gippsland], Rich-Murrungowar forest coupe 509.06, 37°34'S

148°40'E, gully site, 28 Oct to 5 Nov 1991, RC (K 4129). 20♂, 3♀, DCE Upper Yarra site 6, 11 km NE of McMahons Creek, 37°39'S 145°56'E, 14–24 Nov 1988, L. Lumsden (K 4130). 9♂, DCE Upper Yarra site 7, 11.3 km ENE of McMahons Creek, 37°40'S 145°57'E, 14–24 Nov 1988, L. Lumsden (K 4131). 1♂, same data (K 4132) (all NMV). 1♂, Leongatha, 38°30'S 145°58'E, 13 Jun 1995, R.de Souza-Daw (N197333) (SAM).

**Diagnosis.** Male palp (Figs 24a–b) with TA reduced to small bump below base of embolus. MA compact with slender prolateral projection but no other pronounced projections. Embolus broad, abruptly narrowing to pointed tip, with small projection on distal edge before tip. Cymbium with basal prolateral swelling topped by two to four stout macrosetae, adjacent row of stout hairs bordering retrolateral basal depression of cymbium. Palpal patella with single stout dorsal hair, palpal tibia without spines. Female epigynum (Figs 24c–d) with small lateral teeth. Tarsal organ capsulate, situated distally of trichobothria.

**Description.** *Male.* Measurements: BL 7.60, CL 4.35, CW 3.30, PLE 0.35, PME 0.30 (QM 1373). *Female.* Measurements: BL 11.70, CL 4.75, CW 3.75, PLE 0.40, PME 0.35 (QM S1372). For morphological description see species diagnosis and generic description.

**Distribution.** Known from south east Queensland to south east Victoria (Fig. 27d). This is the most widely distributed species of *Storenosoma*.

**Remarks.** The female holotype has the epigynum plugged.

### *Storenosoma victoria* n.sp.

Figs 8d,h, 25a–d, 27b

**Type material.** HOLOTYPE ♂, Victoria, Cement Creek, 37°42'S 145°44'E, 2 Jul 1994, D. Bickel (AMS KS44941). PARATYPES: 3♂, 4♀, Blackwarri Scenic Rd., 0.5 km S of Blackwarri, 38°24'S 146°37'E, 11 Apr 1978 MRG (AMS KS45290); 1♂, Central Highlands, Cement Creek Reserve, 2.2 km ESE of Mt Donna Buang, 37°43'S 145°42'15"E, 20 Jun–1 Sep 1995, GAM, (NMV K4161); 1♀, same data (NMV K4159).

**Other material.** VICTORIA: 1♀, Kinglake National Park, 37°35'S 145°20'E, 29 Mar 1978 MRG (KS45895). 1♂, Strzelecki State Forest, 38°29'S 146°41'E, 11 Apr 1978, MRG (KS45617). 1♀, Mt Worth State Park, near Seaview, 38°16'S 145°59'E, 23 Mar 1978, MRG (KS45282). 2♂, Otway Ranges, 38°27'S 143°58'E, Aug 1979, A. Frazer (KS4393) (all AMS). 38♂, Central Highlands, Acheron Gap, 6 km NE of Mt Donna Buang, 37°40'43"S 145°44'20"E, 26 Oct–28 Dec 1995, GAM, (K 4135). 4♀, same data (K 4134). 2♀, same data (K 4133). 8♂, same data except 28 Dec 1995–21 Feb 1996 (K 4136). 1♀, same data (K 4137). 6♂, same data except 23 Apr–25 Jun 1996 (K 4138). 1♀, same data (K 4101). 16♂, Central Highlands, 0.7 km N of Acheron Gap, 7 km NE of Mt Donna Buang, 37°40'17"S 145°44'20"E, 26 Oct–28 Dec 1995, GAM, (K 4141). 1♀, same data (K 4140). 1♂, same data (K 4142). 1♀, same data (K 4143). 10♂, same data except 28 Dec 1995–21 Feb 1996 (K 4144). 2♂, same data except 23 Apr–25 Jun 1996 (K 4145). 23♂, Central Highlands, the Big Culvert, 2.5 km ENE of Mt Observation, 37°33'36"S 145°52'15"E, 26 Oct–28 Dec 1995, GAM, (K 4148). 1♂, Same data (K 4146). 4♀, same data (K 4147). 2♂, same data except, 28 Dec 1995–21 Feb 1996 (K 4149). 1♀, same data except 19 Feb 1996 (K 4150). 1♂, same data except, 21 Feb–23 Apr 1996 (K 4152). 4♀, same data (K 4145). 6♂, same data except, 23 Apr–25 Jun 1996 (K 4154). 6♀, same data (K 4153). 11♂, Central Highlands, Cement Creek Reserve, 2.2 km ESE of Mt Donna Buang, 37°43'S 145°42'15"E, 29 Nov 1994–20 Jan 1995, GAM, (K 4155). 1♀, same data except 21 Jan–7 Apr 1995 (K 4156). 2♀, same data except 7 Apr–16 May 1995 (K 4157). 1♀, same data except 16 May–15 Jun 1996 (K 4158). 8♂, same data except 20 Jun–1 Sep 1995 (K 4160). 6♂, Central Highlands, Donna Buang Rd, 1 km SW of Mt Donna Buang, 37°43'S 145°40'15"E, 29 Nov 1994–20 Jan 1995, GAM (K 4162). 9♂, same data except 21 Jan–7 Apr 1995 (K 4164). 1♀, same data (K 4163). 14♂, same

data except 7 Apr–16 May 1995 (K 4166). 1♀, same data (K 4165). 26♂, Central Highlands, Myrtle Gully Reserve, 3.4 km WSW of Mt Donna Buang, 37°43'S 145°38'30"E, 29 Nov 1994–20 Jan 1995, GAM (K 4170). 1♂, same data (K 4168). 2♀, same data (K 4169). 4♂, same data except 21 Jan–7 Apr 1995 (K 4172). 6♀, same data (K 4171). 1♂, same data (K 4173). 4♂, same data except 7 Apr–16 May 1995 (K 4174). 5♀, same data (K 4175). 12♂, Central Highlands, Road 26, 0.2 km WNW of Donna Buang Rd junction, 37°43'S 145°39'30"E, 29 Nov 1994–20 Jan 1995, GAM (K 4167). 1♀, Kallista, Nov 1948, C. Oke (K 4247). 12♂, Otway Ranges, Aire Crossing Track, 0.5 km N of Aire River crossing, 38°42'S 143°29'E, 6 Sep to 15 Nov 1994, GAM (K 4177). 5♀, same data (K 4176). 1♀, same data (K 4106). 4♂, same data except 15 Nov 1994–31 Jan 1995 (K 4179). 3♀, same data (K 4178). 1♂, same data except 14 Jun–29 Aug 1995 (K 4181). 1♀, same data (K 4180). 1♂, Otway Ranges, Beauchamp Falls, 38°39'S 143°36'E, 30 Oct 1991, GAM (K 4182). 2♂, same data except 30 Oct–6 Nov 1991 (K 4183). 2♂, same data except 4–10 Dec 1991 (K 4184). 3♀, same data except 21–28 Jan 1992 (K 4185). 2♀, same data except 18–26 Feb 1992 (K 4186). 1♂, same data except 16–23 Apr 1992 (K 4187). 7♂, same data except 6 Sep–15 Nov 1994 (K 4188). 2♀, same data (K 4189). 1♂, same data (K 4190). 3♂, same data except 15 Nov 1994–31 Jan 1995 (K 4192). 4♀, same data (K 4191). 3♂, same data except 31 Jan–11 Apr 1995 (K 4194). 2♀, same data (K 4107). 7♀, same data (K 4193). 36♂, same data except 11 Apr–14 Jun 1995 (K 4195). 8♀, same data (K 4196). 2♂, same data (K 4197). 17♂, same data except 14 Jun–29 Aug 1995 (K 4199). 5♀, same data (K 4198). 1♀, same data (K 4200). 1♂, Otway Ranges, Maits Rest, 10 km W of Apollo Bay, 38°45'S 143°34'E, 22 Oct 1991, GAM (K 4202). 3♀, same data except 30 Oct 1991 (K 4203). 8♂, same data (K 4204). 12♂, same data except 30 Oct–6 Nov 1991 (K 4205). 10♂, same data except 6–13 Nov 1991 (K 4206). 6♀, same data (K 4207). 9♂, same data except 4–10 Dec 1991 (K 4208). 1♀, same data (K 4209). 1♀, same data (K 4210). 1♀, same data except 21–28 Jan 1992 (K 4211). 1♀, same data except 18–24 Mar 1992 (K 4212). 7♂ Otway Ranges, Phillips Track, 0.5 km N of Triplet Falls, 38°40'S 143°29'E, 30 Oct 1991, GAM (K 4213). 1♂, same data except 30 Oct–6 Nov 1991 (K 4215). 1♀, same data (K 4214). 1♀, same data except 6–13 Nov 1991 (K 4216). 3♂, same data except 4–10 Dec 1991 (K 4217). 23♂, same data except 6 Sep–15 Nov 1994 (K 4218). 8♀, same data (K 4219). 1♀, same data (K 4102). 10♂, same data except 15 Nov 1994–31 Jan 1995 (K 4220). 3♀, same data (K 4221). 5♀, same data except 31 Jan–11 Apr 1995 (K 4222). 1♂, same data except 11 Apr–14 Jun 1995 (K 4223). 2♂, same data (K 4224). 10♂, same data except 14 Jun–29 Aug 1995 (K 4225). 3♀, same data (K 4226). 55♂ Otway Ranges, Young Creek Rd, 0.2 km NE of Ciancio Creek crossing, 38°42'S 143°29'E, 6 Sep–15 Nov 1994, GAM (K 4227). 20♀, same data (K 4228). 1♀, same data (K 4105). 32♂, same data except 15 Nov 1994–31 Jan 1995 (K 4229). 12♀, same data (K 4230). 14♀,

same data except 31 Jan–11 Apr 1995 (K 4231). 1♀, same data except 11 Apr–14 Jun 1995 (K 4232). 7♀, same data (K 4233). 10♂, same data except 14 Jun–29 Aug 1995 (K 4234). 3♀, same data (K 4235). 20♂ Otway Ranges, Young Creek Rd, 0.4 km NW of Triplet Falls, 38°40'S 143°29'E, 6 Sep–15 Nov 1994, GAM (K 4236). 1♀, same data (K 4237). 28♂, same data except 15 Nov 1994–31 Jan 1995 (K 4238). 16♀, same data (K 4239). 1♀, same data (K 4103). 8♀, same data except 31 Jan–11 Apr 1995 (K 4242). 7♂, same data except 11 Apr–14 Jun 1995 (K 4240). 6♀, same data (K 4241). 1♀, same data (K 4243). 28♂, same data except 14 Jun–29 Aug 1995 (K 4244). 6♀, same data (K 4245). 1♂, same data (K 4246). 1♂, Sherbrooke Forest, Aug 1974 (K 4284). 9♂, Strzelecki Ranges, Gunya-Toora Rd, 2 km SSW of Gunyah Gunyah, 38°32'30"S 146°19'E, 14 Sep–14 Nov 1995, GAM (K 4249). 1♀, same data (K 4250). 2♂, same data except 14 Nov 1995–10 Jan 1996 (K 4251). 2♀, same data (K 4252). 11♂, same data except 7 May–16 Jul 1996 (K 4253). 9♀, same data (K 4254). 1♂, same data (K 4255). 3♂, Strzelecki Ranges, Jeeralang West Rd, 0.1 km N of Binns Hill Junction, 38°26'30"S 146°29'E, 14 Sep–14 Nov 1995, GAM (K 4256). 11♂, same data except 14 Nov 1995–10 Jan 1996 (K 4257). 2♀, same data (K 4258). 4♀, same data except 10 Jan–5 Mar 1996 (K 4259). 8♂, same data except 7 May–16 Jul 1996 (K 4260). 1♀, same data (K 4261). 50♂, Strzelecki Ranges, Tarra-Bulga Nat. Pk, Bulga Picnic Area, 38°25'30"S 146°34'20"E, 14 Sep–14 Nov 1995, GAM (K 4262). 10♀, same data (K 4263). 19♂, same data except 14 Nov 1995–10 Jan 1996 (K 4264). 2♀, same data (K 4265). 1♂, same data except 5 Mar–7 May 1996 (K 4266). 3♀, same data (K 4267). 8♂, same data except 7 May–16 Jul 1996 (K 4268). 3♀, same data (K 4269). 4♂, Strzelecki Ranges, Tarra-Bulga Nat. Pk, 0.5 km NNE of Tarra Valley Picnic Area, 38°26'40"S 146°32'30"E, 14 Sep–14 Nov 1995, GAM (K 4270). 3♀, same data (K 4271). 9♂, same data except 14 Nov 1995–10 Jan 1996 (K 4273). 2♀, same data (K 4108). 3♀, same data (K 4274). 8♂, same data except 5 Mar–7 May 1996 (K 4275). 1♂, same data (K 4276). 6♀, same data (K 4277). 1♀, same data (K 4278). 11♂, same data except 7 May–16 Jul 1996 (K 4279). 1♀, same data (K 4280). 1♂, same data except 14 Nov 1995 (K 4272). 86♂, Strzelecki Ranges, Tarra-Bulga Nat. Pk, 0.2 km W of Tarra Valley Picnic Area, 38°27'S 146°32'E, 14 Sep–14 Nov 1995, GAM (K 4281). 7♀, same data (K 4282). 37♂, same data except 14 Nov 1995–10 Jan 1996 (K 4283). 4♀, same data (K 4284). 2♂, same data except 10 Jan–5 Mar 1996 (K 4285). 6♀, same data (K 4286). 1♀, same data (K 4287). 5♀, same data except 5 Mar–7 May 1996 (K 4288). 10♂, same data except 7 May–16 Jul 1996 (K 4289). 9♀, same data (K 4290). 1♀, same data (K 4109). 1♂, Turton's Creek, near Foster, [38.32S 146.14E], 10 Jun 1972, Bell (K 4290). 21♂, 1f, DCE Upper Yarra site 2, 10.4 km NW of Toorongo, 37°44'S 146°01'E, 14–24 Nov 1988, L. Lumsden (K 4292). 1♀, same data (K 4293). 1♀, same data (K 4294). 1♀, same data (K 4295). 1♀, same data (K 4296). 1♀, same data (K 4297). 20♂, DCE Upper Yarra site 4, 1.5 km E of Fifteen Mile, 37°40'S

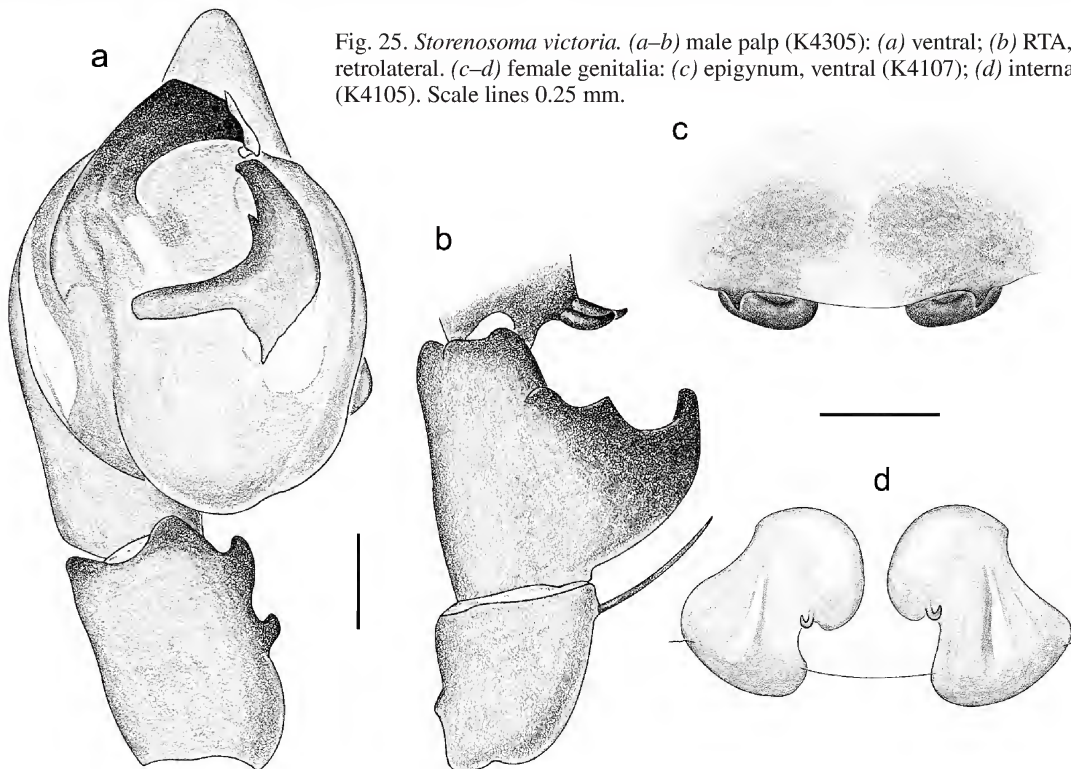


Fig. 25. *Storenosoma victoria*. (a–b) male palp (K4305): (a) ventral; (b) RTA, retrolateral. (c–d) female genitalia: (c) epigynum, ventral (K4107); (d) internal (K4105). Scale lines 0.25 mm.

146°04'E, 14–24 Nov 1988, L. Lumsden (K 4298). 4♂, DCE Upper Yarra site 5, 2.5 km ESE of Fifteen Mile, 37°40'S 146°05'E, 14–24 Nov 1988, L. Lumsden (K 4299). 13♂, DCE Upper Yarra site 6, 11 km NE of McMahon's Creek, 37°39'S 145°56'E, 14–24 Nov 1988, L. Lumsden (K 4300). 13♂, DCE Upper Yarra site 7, 11.3 km ENE of McMahon's Creek, 37°40'S 145°57'E, 14–24 Nov 1988, L. Lumsden (K 4301). 4♀, same data (K 4032). 2♀, same data (K 4303). 3♂, DCE Upper Yarra site 8, 11.4 km ENE of McMahon's Creek, 37°41'S 145°57'E, 14–24 Nov 1988, L. Lumsden (K 4305). 1♂, DCE Upper Yarra site 9, 9.6 E of McMahon's Creek, 37°41'S 145°56'E, 14–24 Nov 1988, L. Lumsden (K 4304) (all NMV). 3♀, Maits Rest, Otway Ranges, 38°45'S 143°35'E, 4 Nov 1997, GBM & SRM, (S 46470) (QM). 1♀, The Beeches, 37°28'S 145°49'E, 25 Mar 1991, M.S. Harvey & M.E. Bosfelds (95/1181-3). 1♂, Cumberland Falls, 37°34'S 145°53'E, 27 May 1991, M.S. Harvey & M.E. Bosfelds (95/1184) (both WAM).

**Diagnosis.** Male palp (Figs 25a–b) without obvious TA but with slight expansion at base of embolus. MA compact with elongate prolateral projection but no other pronounced projections. Embolus broad with median expansion, abruptly narrowing to pointed tip. Cymbium without basal swelling but with two to three stout basal prolateral macrosetae. Palpal

patella with single stout dorsal hair, palpal tibia without spines. Female epigynum (Figs 25c–d) with small lateral teeth. Tarsal organ capsulate (Fig. 8d,h), situated distally of trichobothria.

**Description.** *Male.* Measurements: BL 6.80, CL 3.50, CW 2.75, PLE 3.40, PME 2.50 (AMS KS44941). *Female.* Measurements: BL 8.05, CL 3.30, CW 2.85, PLE 3.40, PME 2.50 (AMS KS45290). For morphological description see species diagnosis and generic description.

**Etymology.** The specific name refers to the known range of this species, the state of Victoria. It is a noun in apposition.

**Distribution.** Known only from Victoria (Fig. 27b)

**Remarks.** The presence of stout prolateral basal macrosetae on the male cymbium suggests that this is the sister species to *S. terraneum*, the only other species in the genus with this feature.

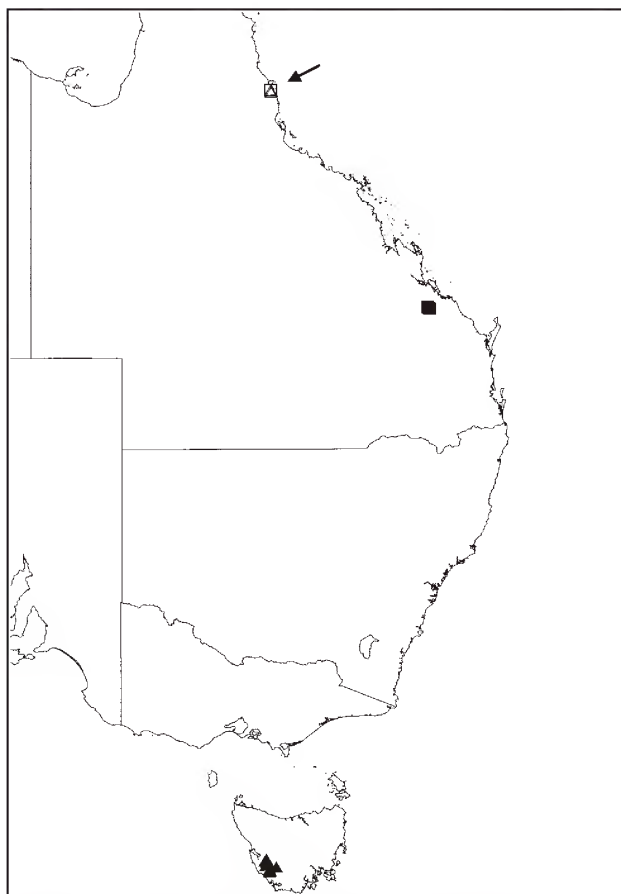


Fig. 26. Distribution of *Oztira* spp.: ▲ *O. affinis*, ■ *O. kroombit*, □ *O. aquilonaria*, and △ (indicated by arrow) *O. summa*.

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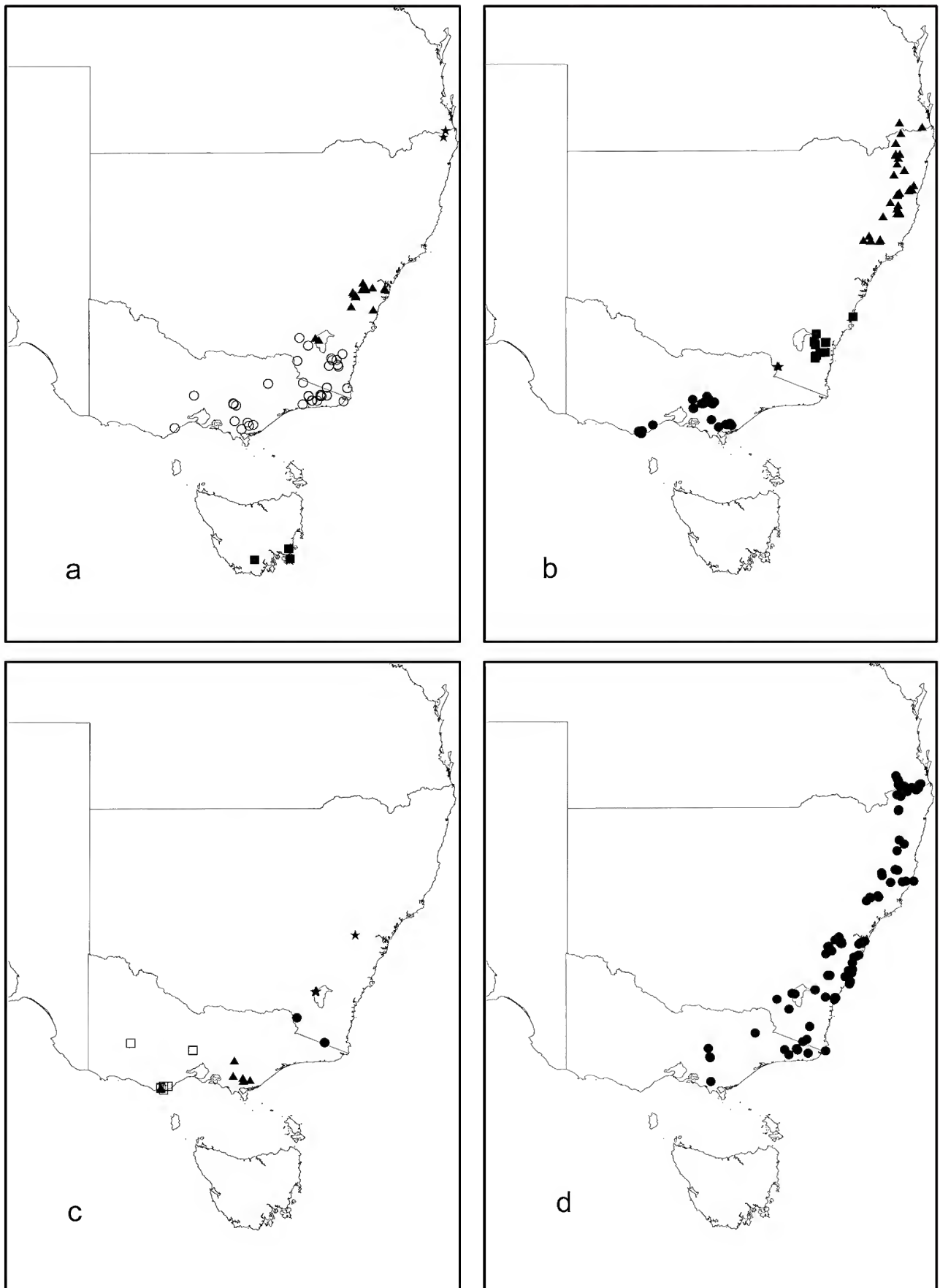


Fig. 27. Distribution of *Storenosoma* spp.: (a) ■ *S. tasmaniensis*, ○ *S. hoggi*, ▲ *S. forsteri*, ★ *S. supernum*. (b) ● *S. victoria*, ★ *S. smithae*, ■ *S. grayi*, ▲ *S. altum*. (c) □ *S. grossum*, ▲ *S. bifidum*, ● *S. bondi*, ★ *S. picadilly*. (d) ● *S. terraneum*.

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